# PowerLite® 1750/1760W/1770W/1775W Projector User's Guide

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# **Introduction to Your Projector**

Refer to these sections to learn more about your projector and this manual.

Projector Features
Notations Used in the Documentation
Where to Go for Additional Information
Projector Parts Locations

## **Projector Features**

The PowerLite 1750, 1760W, 1770W, and 1775W projectors include these special features:

#### Bright, high-resolution projection system

- PowerLite 1750/1760W: Up to 2600 lumens of brightness (white light output and color light output)

  PowerLite 1770W/1775W: Up to 3000 lumens of brightness (white light output and color light output)
- PowerLite 1750: Native resolution of 1024 × 768 pixels (XGA)
   PowerLite 1760W/1770W/1775W: Native resolution of 1280 × 800 pixels (WXGA)

#### Flexible connectivity

- Plug-and-play USB projection
- Wireless network support (PowerLite 1760W/1770W/1775W), including video and audio transfer
- Wireless LAN module included (PowerLite 1775W)
- PC Free presentations via connected USB memory devices
- HDMI port for video devices (PowerLite 1760W/1770W/1775W)
- · Port for optional Epson document camera

#### Innovative display and operation features

- Screen Fit feature automatically resizes images for your projection screen (PowerLite 1775W)
- 2000:1 contrast ratio and Auto Iris control for crisply detailed images
- Powered focus via the projector or remote control (PowerLite 1775W)
- · Epson Instant Off and Direct Power On features for quick setup and shut down
- Network message broadcast system to project timely messages to all networked projectors (PowerLite 1760W/1770W/1775W)

Product Box Contents
Additional Components
Optional Equipment and Replacement Parts
Registration and Warranty Information

Parent topic: Introduction to Your Projector

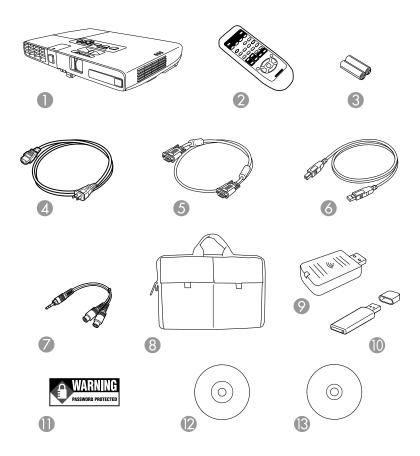
**Related concepts** 

**Projector Parts Locations** 

## **Product Box Contents**

Save all the packaging in case you need to ship the projector. Always use the original packaging (or equivalent) when shipping.

Make sure your projector box included all of these parts:



- 1 Projector
- 2 Remote control
- 3 Remote control batteries (two AA alkaline)
- 4 Power cord
- 5 VGA computer cable
- 6 USB cable
- 7 Audio adapter cable
- 8 Carrying case

- 9 Wireless LAN module (PowerLite 1775W)
- 10 Epson Quick Wireless USB Connection Key (PowerLite 1775W)
- 11 Password Protected sticker
- 12 Projector documentation CD
- 13 Projector software CD

Parent topic: Projector Features

## **Additional Components**

Depending on how you plan to use the projector, you may need to obtain the following additional components:

- To receive a component video signal, you need a D-sub, 15-pin, component-to-VGA video cable. You can purchase one from Epson or an authorized Epson reseller.
- To receive an HDMI signal, you need a compatible HDMI cable.
- To project with audio from certain ports, you may need a commercially available audio cable compatible with your device. See your local computer or electronics dealer for purchase information.

Parent topic: Projector Features

## **Optional Equipment and Replacement Parts**

You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766). Or you can purchase online at www.epsonstore.com (U.S. sales) or www.epson.ca (Canadian sales).

Epson offers the following optional accessories and replacement parts for your projector:

Option or part	Part number
Genuine Epson replacement lamp	V13H010L65
Air filter replacement set (2 filters)	V13H134A31
Wireless LAN module	V12H418P12
(PowerLite 1760W/1770W/1775W only)	
Quick Wireless Connection USB key	V12H005M08
(PowerLite 1760W/1770W/1775W only)	

Option or part	Part number
Epson DC-11 document camera	V12H377020
Epson DC-10s document camera	ELPDC10S
Epson DC-06 document camera	V12H321001
BrightLink Solo interactive module (IU-01)	V12H415020
Kensington security lock	ELPSL01
Accolade Duet portable projector screen	ELPSC80
ES3000 Ultra Portable Projection screen	V12H002S3Y
60-inch portable pop-up screen (4:3 aspect ratio)	V12H002S27
80-inch portable pop-up screen (4:3 aspect ratio)	V12H002S28
Component-to-VGA video cable	V12H005C19
Distribution amplifier	ELPDA01
Remote control	1507996
1-Year Extended Depot Repair Service Plan	EPPFTPA1
1-Year Extended Exchange Warranty	EPPEXPA1
2-Year Extended Depot Repair Service Plan	EPPFTPA2

Parent topic: Projector Features

## **Registration and Warranty Information**

Your projector comes with a basic warranty that lets you project with confidence. For details, see the warranty brochure that came with your projector.

In addition, Epson offers free Extra Care Road Service. In the unlikely event of an equipment failure, you won't have to wait for your unit to be repaired. Instead, Epson will ship you a replacement unit anywhere in the United States or Canada. See the Extra Care Road Service brochure for details.

Register your product online using the projector CD or at this site: www.epson.com/webreg

Registering also lets you receive special updates on new accessories, products, and services.

Parent topic: Projector Features

#### **Notations Used in the Documentation**

Follow the guidelines in these notations as you read your documentation:

- Warnings must be followed carefully to avoid bodily injury.
- Cautions must be observed to avoid damage to your equipment.
- Notes contain important information about your projector.
- **Tips** contain additional projection information.

Parent topic: Introduction to Your Projector

## Where to Go for Additional Information

Need quick help on using your projector during a presentation? Here's where to look for help:

Built-in help system

Press the **Help** button on the remote control or projector to get quick solutions to common problems.

www.epson.com/support (U.S) or www.epson.ca/support (Canada)

View FAQs (frequently asked questions) and e-mail your questions to Epson technical support 24 hours a day.

- For detailed instructions on using your projector in a network environment (PowerLite 1760W/1770W/1775W), see the *EasyMP Network Projection Operation Guide* installed with this manual from your projector CD.
- For detailed instructions on converting PowerPoint files into a slide show file format that you can display from a USB device connected to your projector (Windows only), see the EasyMP Slide Converter Operation Guide installed with this manual from your projector CD.
- If you still need help after checking this manual and the sources listed above, you can use the Epson PrivateLine Support service to get help fast. For details, see "Where to Get Help".

Parent topic: Introduction to Your Projector

Related references Where to Get Help

# **Projector Parts Locations**

Check the projector part illustrations to learn about the parts on your projector.

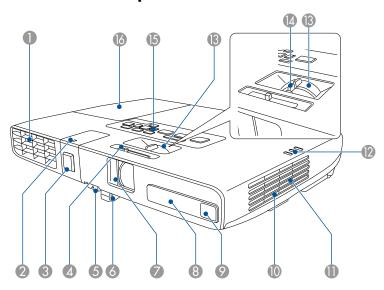
Projector Parts - Front/Top Projector Parts - Rear Projector Parts - Base

Projector Parts - Control Panel

Projector Parts - Remote Control

Parent topic: Introduction to Your Projector

# **Projector Parts - Front/Top**

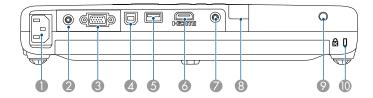


- 1 Exhaust vent
- Wireless LAN module indicator light (PowerLite 1760W/1770W/1775W)
- 3 Wireless LAN module cover (PowerLite 1760W/1770W/1775W)
- 4 A/V Mute slide lever
- 5 Foot release lever
- 6 Front adjustable foot
- 7 **A/V Mute** slide (lens cover)
- 8 Remote receiver
- 9 Projection distance/shape sensor (PowerLite 1775W)

- 10 Air intake vent (air filter)
- 11 Speaker
- 12 Projector status lights
- 13 Zoom ring
- 14 Focus ring (PowerLite 1750/1760W/1770W)
- 15 Control panel
- 16 Lamp cover

**Parent topic:** Projector Parts Locations

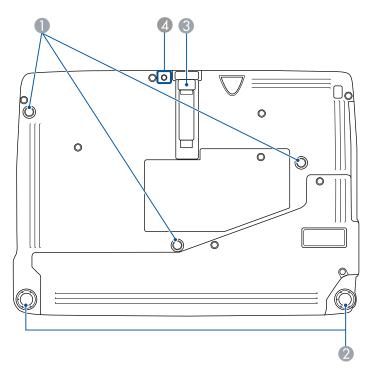
## **Projector Parts - Rear**



- 1 A/C input port
- 2 Video port
- 3 **Computer** port
- 4 USB **TypeB** port
- 5 USB **TypeA** port
- 6 **HDMI** port (PowerLite 1760W/1770W/1775W)
- 7 **Audio** port
- 8 Remote receiver
- 9 Lamp cover screw
- 10 Security lock port

**Parent topic:** Projector Parts Locations

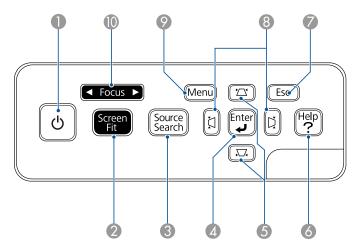
# **Projector Parts - Base**



- 1 Mounting bracket holes
- 2 Rear feet
- 3 Front adjustable foot
- 4 Wireless LAN module screw (PowerLite 1760W/1770W/1775W)

Parent topic: Projector Parts Locations

# **Projector Parts - Control Panel**

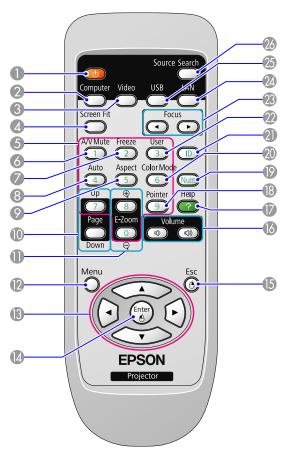


- 1 Power button and light
- 2 Screen Fit button (PowerLite 1775W; adjusts projected images)
- 3 **Source Search** button (searches for connected video sources)
- 4 Enter button (selects options)
- 5 Vertical keystone adjustment buttons (adjust screen shape) and arrow buttons
- 6 **Help** button (accesses projector help information)
- 7 **Esc** button (cancels/exits functions)
- 8 Horizontal keystone adjustment buttons (adjust screen shape) and arrow buttons
- 9 **Menu** button (accesses projector menu system)
- 10 **Focus** buttons (PowerLite 1775W)

**Parent topic:** Projector Parts Locations

Related references
Projector Light Status

# **Projector Parts - Remote Control**



- 1 Power button
- **Computer** button (selects connected computer source)
- **Video** button (cycles through connected video sources)
- **Screen Fit** button (adjusts image shape; functions only on PowerLite 1775W and when not projecting from the ceiling)
- 5 Numeric buttons (enter numbers)
- **A/V Mute** button (turns off picture and sound)

- **Freeze** button (stops video action)
- **Auto** button (automatically adjusts position, tracking, and sync settings)
- **Aspect** button (selects the image aspect ratio)
- **Page Up/Down** buttons (control presentation slides)
- **E-Zoom +/–** buttons (zoom into and out of the image)
- **Menu** button (accesses projector menu system)
- 13 Arrow buttons (move through on-screen options and control wireless mouse functions)
- **Enter** button (selects options and controls wireless mouse functions)
- **Esc** button (cancels/exits functions and controls wireless mouse functions)
- **Volume** up and down buttons (adjust speaker volume)
- **Help** button (accesses projector help information)
- **Pointer** button (activates on-screen pointer)
- **Num** button (switches buttons to number function for entering numbers)
- **Color Mode** button (selects display modes)
- **ID** button (selects projector and remote control ID numbers)
- **User** button (customizable for different functions)
- **Focus** buttons (adjusts the image focus; functions only on PowerLite 1775W)
- **LAN** button (switches to available network source)
- **USB** button (cycles through connected USB sources)
- **Source Search** button (searches for connected sources)

**Parent topic:** Projector Parts Locations

# **Setting Up the Projector**

Follow the instructions in these sections to set up your projector for use.

Projector Placement
Projector Connections
Installing Batteries in the Remote Control
Opening the Lens Cover

# **Projector Placement**

You can place the projector on almost any flat surface to project your presentation.

You can also install the projector in a ceiling mount if you want to use it in a fixed location.

Keep these considerations in mind as you select a projector location:

- Place the projector on a sturdy, level surface or install it using a compatible mount.
- Leave plenty of space around and under the projector for ventilation, and do not place it on top of or next to anything that could block the vents.
- Position the projector within 9.8 feet (3 m) of a grounded electrical outlet or extension cord.

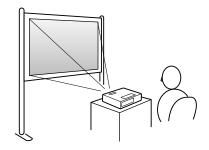
Projector Setup and Installation Options
Projection Distance

Parent topic: Setting Up the Projector

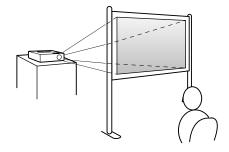
## **Projector Setup and Installation Options**

You can set up or install your projector to view presentations in the following ways:

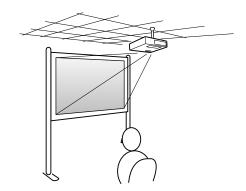
# Front



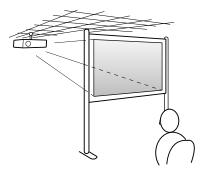
# Rear



# Ceiling



#### Rear Ceiling



Wherever you set up the projector, make sure to position it squarely in front of the center of the screen, not at an angle, if possible.

If you project from the ceiling or from the rear, be sure to select the correct **Projection** option in the projector's menu system.

Parent topic: Projector Placement

Related references

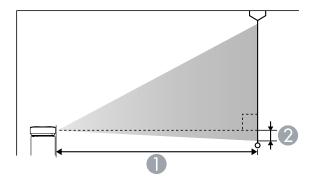
Projector Setup Settings - Extended Menu

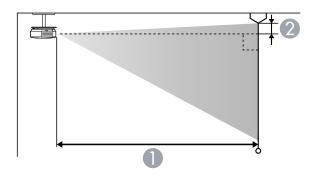
## **Projection Distance**

The distance at which you place the projector from the screen determines the approximate size of the image. The image size increases the farther the projector is from the screen, but can vary depending on the zoom factor, aspect ratio, and other settings.

Use the tables here to determine approximately how far to place the projector from the screen based on the size of the projected image. (Conversion figures may have been rounded up or down.)

## PowerLite 1760W/1770W/1775W





# 4:3 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
28 inches (71 cm)	28 to 33 inches	-1.5 inches (-4 cm)
	(71 to 85 cm)	
30 inches (76.2 cm)	30 to 36 inches	-1.6 inches (-4 cm)
	(76 to 91 cm)	

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
40 inches (101.6 cm)	40 to 48 inches	-2.2 inches (-6 cm)
	(102 to 122 cm)	
50 inches (127 cm)	50 to 60 inches	-2.7 inches (-7 cm)
	(127 to 153 cm)	
60 inches (152.4 cm)	60 to 72 inches	-3.3 inches (-8 cm)
	(153 to 184 cm)	
80 inches (203.2 cm)	81 to 97 inches	-4.4 inches (-11 cm)
	(205 to 246 cm)	
100 inches (254 cm)	101 to 121 inches	-5.5 inches (-14 cm)
	(256 to 308 cm)	
150 inches (381 cm)	152 to 182 inches	-8.2 inches (-21 cm)
	(385 to 462 cm)	
200 inches (508 cm)	202 to 243 inches	-10.9 inches (-28 cm)
	(514 to 617 cm)	
250 inches (635 cm)	253 to 304 inches	-13.6 inches (-35 cm)
	(643 to 771 cm)	
260 inches (660 cm)	263 to 316 inches	-14.2 inches (-36 cm)
	(668 to 802 cm)	

# 16:9 Aspect Ratio Image or Screen

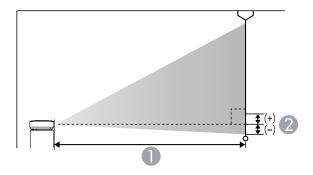
Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
30 inches (76.2 cm)	27 to 33 inches	-0.7 inch (-2 cm)
	(69 to 83 cm)	

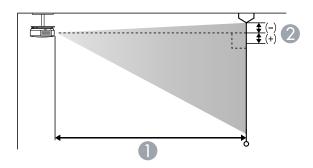
Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
40 inches (101.6 cm)	36 to 44 inches	-0.9 inch (-2 cm)
	(92 to 111 cm)	
50 inches (127 cm)	45 to 55 inches	-1.1 inches (-3 cm)
	(115 to 139 cm)	
60 inches (152.4 cm)	55 to 66 inches	-1.3 inches (-3 cm)
	(139 to 167 cm)	
70 inches (177.8 cm)	64 to 77 inches	-1.6 inches (-4 cm)
	(162 to 195 cm)	
80 inches (203.2 cm)	73 to 88 inches	-1.8 inches (-5 cm)
	(186 to 223 cm)	
100 inches (254 cm)	91 to 110 inches	-2.2 inches (-6 cm)
	(232 to 279 cm)	
150 inches (381 cm)	138 to 165 inches	-3.3 inches (-8 cm)
	(349 to 419 cm)	
200 inches (508 cm)	184 to 220 inches	-4.5 inches (-11 cm)
	(466 to 560 cm)	
250 inches (635 cm)	230 to 276 inches	-5.6 inches (-14 cm)
	(583 to 700 cm)	
280 inches (711.2 cm)	257 to 309 inches	-6.2 inches (-16 cm)
	(653 to 784 cm)	

16:10 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
30 inches (76.2 cm)	26 to 32 inches	-1.4 inches (-4 cm)
	(67 to 80 cm)	
40 inches (101.6 cm)	35 to 42 inches	-1.9 inches (-5 cm)
	(89 to 108 cm)	
50 inches (127 cm)	44 to 53 inches	-2.4 inches (-6 cm)
	(112 to 135 cm)	
60 inches (152.4 cm)	53 to 64 inches	-2.9 inches (-7 cm)
	(135 to 162 cm)	
80 inches (203.2 cm)	71 to 85 inches	-3.9 inches (-10 cm)
	(181 to 217 cm)	
100 inches (254 cm)	89 to 107 inches	-4.8 inches (-12 cm)
	(226 to 271 cm)	
150 inches (381 cm)	134 to 161 inches	-7.2 inches (-18 cm)
	(340 to 408 cm)	
200 inches (508 cm)	179 to 214 inches	-9.6 inches (-24 cm)
	(454 to 545 cm)	
250 inches (635 cm)	223 to 268 inches	-12 inches (-31 cm)
	(567 to 681 cm)	
300 inches (762 cm)	268 to 322 inches	-14.4 inches (-37 cm)
	(681 to 818 cm)	

## PowerLite 1750





# 4:3 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
30 inches (76.2 cm)	28 to 34 inches	–2 inches (–5 cm)
	(72 to 86 cm)	
40 inches (101.6 cm)	38 to 45 inches	-2.7 inches (-7 cm)
	(96 to 116 cm)	
50 inches (127 cm)	47 to 57 inches	-3.4 inches (-9 cm)
	(120 to 145 cm)	

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
60 inches (152.4 cm)	57 to 69 inches	-4.1 inches (-10 cm)
	(145 to 174 cm)	
80 inches (203.2 cm)	76 to 92 inches	-5.4 inches (-14 cm)
	(194 to 233 cm)	
100 inches (254 cm)	95 to 115 inches	-6.8 inches (-17 cm)
	(242 to 291 cm)	
150 inches (381 cm)	143 to 172 inches	-10.1 inches (-26 cm)
	(364 to 438 cm)	
200 inches (508 cm)	192 to 230 inches	-13.5 inches (-34 cm)
	(486 to 584 cm)	
250 inches (635 cm)	240 to 287 inches	-16.9 inches (-43 cm)
	(608 to 730 cm)	
300 inches (762 cm)	288 to 345 inches	-20.3 inches (-51 cm)
	(730 to 877 cm)	

# 16:9 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
30 inches (76.2 cm)	31 to 37 inches	0.2 inch (1 cm)
	(78 to 94 cm)	
40 inches (101.6 cm)	41 to 50 inches	0.3 inch (1 cm)
	(105 to 126 cm)	
50 inches (127 cm)	52 to 62 inches	0.4 inch (1 cm)
	(131 to 158 cm)	

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
60 inches (152.4 cm)	62 to 75 inches	0.5 inch (1 cm)
	(158 to 190 cm)	
70 inches (177.8 cm)	73 to 87 inches	0.6 inch (1 cm)
	(185 to 222 cm)	
80 inches (203.2 cm)	83 to 100 inches	0.6 inch (2 cm)
	(211 to 254 cm)	
100 inches (254 cm)	104 to 125 inches	0.8 inch (2 cm)
	(264 to 317 cm)	
150 inches (381 cm)	156 to 188 inches	1.2 inches (3 cm)
	(397 to 477 cm)	
200 inches (508 cm)	209 to 250 inches	1.6 inches (4 cm)
	(530 to 636 cm)	
250 inches (635 cm)	261 to 313 inches	2 inches (5 cm)
	(663 to 796 cm)	
275 inches (698.5 cm)	287 to 345 inches	2.2 inches (6 cm)
	(729 to 875 cm)	

# 16:10 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
29 inches (73.7 cm)	29 to 35 inches	-0.5 inch (-1 cm)
	(73 to 88 cm)	
30 inches (76.2 cm)	30 to 36 inches	-0.6 inch (-1 cm)
	(76 to 92 cm)	

Screen or image size	Projection distance (1)	Offset from lens center (2)
	Wide to Tele	
40 inches (101.6 cm)	40 to 48 inches	-0.7 inch (-2 cm)
	(102 to 123 cm)	
50 inches (127 cm)	50 to 60 inches	-0.9 inch (-2 cm)
	(128 to 154 cm)	
60 inches (152.4 cm)	60 to 73 inches	-1.1 inches (-3 cm)
	(154 to 185 cm)	
80 inches (203.2 cm)	81 to 97 inches	-1.5 inches (-4 cm)
	(205 to 247 cm)	
100 inches (254 cm)	101 to 122 inches	-1.9 inches (-5 cm)
	(257 to 309 cm)	
150 inches (381 cm)	152 to 183 inches	-2.8 inches (-7 cm)
	(386 to 464 cm)	
200 inches (508 cm)	203 to 244 inches	-3.7 inches (-9 cm)
	(516 to 619 cm)	
250 inches (635 cm)	254 to 305 inches	-4.6 inches (-12 cm)
	(654 to 774 cm)	
280 inches (711.2 cm)	284 to 341 inches	-5.2 inches (-13 cm)
	(723 to 867 cm)	

Parent topic: Projector Placement

# **Projector Connections**

You can connect the projector to a variety of computer, video, and audio sources to display presentations, movies, or other images, with or without sound.

- Connect any type of computer that has a USB port or standard video output (monitor) port.
- For video projection, connect devices such as DVD players, gaming consoles, digital cameras, and camera phones with compatible video output ports.

- If your presentation or video includes sound, you can connect audio input cables, if necessary.
- For presentations or slide shows without a computer, you can connect USB devices (such as a flash drive or camera) or an optional document camera.

**Caution:** If you will use the projector at altitudes above 4921 feet (1500 m), turn on **High Altitude Mode** to ensure the projector's internal temperature is regulated properly.

**Connecting to Computer Sources** 

Connecting to Video Sources

Connecting to External USB Devices

Connecting to a Document Camera

Parent topic: Setting Up the Projector

Related references

Projector Setup Settings - Extended Menu

**Product Box Contents** 

## **Connecting to Computer Sources**

Follow the instructions in these sections to connect a computer to the projector.

Connecting to a Computer for USB Video and Audio

Connecting to a Computer for VGA Video

Connecting to a Computer for HDMI Video and Audio

Connecting to a Computer for USB Mouse Control

Connecting to a Computer for Sound

**Parent topic:** Projector Connections

#### Connecting to a Computer for USB Video and Audio

If your computer is using one of the following operating systems, you can send video and audio output to the projector through the computer's USB port (preferably USB 2.0):

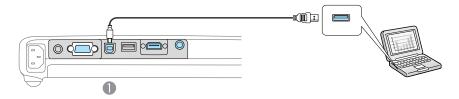
- Windows 7 (32-bit)
- Windows Vista (32-bit)
- Windows XP (32-bit)
- · Windows 2000 Service Pack 4
- Mac OS X 10.5.1 or later

Mac OS X 10.6.x

Connect the projector to your computer using a USB cable.

**Note:** The computer display resolution must be between 640 × 480 and 1600 × 1200 (Windows) or 1680 × 1200 (Macintosh) to project using USB. You cannot use the remote control's wireless mouse function when you use your projector's USB Type B port for presentation display.

- 1. In the projector's **Extended** menu, set the **USB Type B** setting to **USB Display**.
- 2. Turn on your computer.
- 3. Connect the cable to your projector's USB **TypeB** port.
- 4. Connect the other end to any available USB port on your computer.



#### 1 USB **TypeB** port

- 5. Do one of the following:
  - **Windows**: Wait as messages appear on your computer screen and the projector installs the Epson USB Display software on your computer.

**Note:** For Windows 2000, select **My Computer**, **EPSON\_PJ\_UD**, and **EMP\_UDSE.EXE** to install the Epson USB Display software.

• **Macintosh**: The USB Display setup folder appears on your screen. Select **USB Display Installer** and follow the on-screen instructions to install the Epson USB Display software.

You need to install this software only the first time you connect the projector to the computer.

The projector displays the image from your computer's desktop and outputs sound, if your presentation contains audio.

Parent topic: Connecting to Computer Sources

#### Related references

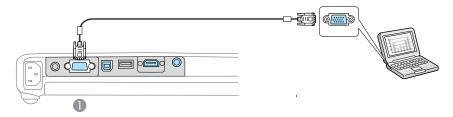
Projector Setup Settings - Extended Menu

#### **Connecting to a Computer for VGA Video**

You can connect the projector to your computer using a VGA computer cable.

**Note:** To connect a Macintosh that includes only a Mini DisplayPort or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector's VGA video port. Contact Apple for compatible adapter options.

- 1. If necessary, disconnect your computer's monitor cable.
- 2. Connect the VGA computer cable to your computer's monitor port.
- 3. Connect the other end to a **Computer** port on the projector.



#### 1 **Computer** port

4. Tighten the screws on the VGA connectors.

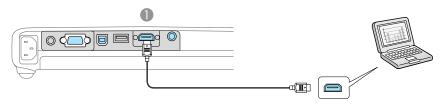
Parent topic: Connecting to Computer Sources

## Connecting to a Computer for HDMI Video and Audio

If your computer has an HDMI port, you can connect it to the projector using an optional HDMI cable (PowerLite 1760W/1770W/1775W).

- 1. Make sure the projector and your computer are turned off.
- 2. Connect the HDMI cable to your computer's HDMI output port.

3. Connect the other end to the projector's **HDMI** port.



#### 1 **HDMI** port

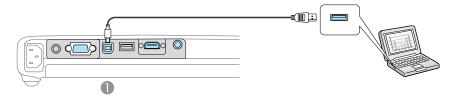
Parent topic: Connecting to Computer Sources

#### **Connecting to a Computer for USB Mouse Control**

If you connected your computer to a **Computer** or **HDMI** port on the projector, you can set up the remote control to act as a wireless mouse. This lets you control computer presentations at a distance from your computer. To do this, connect the projector to your computer using a USB cable.

**Note:** You cannot use the remote control's wireless mouse function when you use your projector's USB Type B port to project from a computer.

- 1. In the projector's **Extended** menu, set the **USB Type B** setting to **Link21L**.
- 2. Connect the USB cable to your projector's USB **TypeB** port.



### 1 USB **TypeB** port

- 3. Connect the other end to any available USB port on your computer.
- 4. If necessary, configure your computer to work with an external USB mouse. See your computer documentation for details.

Parent topic: Connecting to Computer Sources

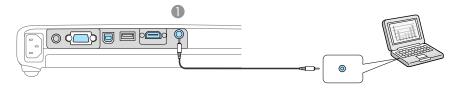
#### Related references

Projector Setup Settings - Extended Menu Projector Parts - Remote Control

#### **Connecting to a Computer for Sound**

If your computer presentation includes sound and you did not connect it using the projector's USB **TypeB** or **HDMI** port, you can still play sound through the projector's speaker system. Just connect an optional 3.5 mm stereo mini-jack audio cable as described here.

- 1. Connect the audio cable to your laptop's headphone or audio-out jack, or your desktop's speaker or audio-out port.
- 2. Connect the other end to the projector's **Audio** port.



#### 1 Audio port

Parent topic: Connecting to Computer Sources

## **Connecting to Video Sources**

Follow the instructions in these sections to connect video devices to the projector.

Connecting to an HDMI Video Source

Connecting to a Component-to-VGA Video Source

Connecting to a Composite Video Source

Connecting to a Video Source for Sound

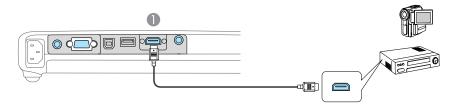
**Parent topic:** Projector Connections

#### **Connecting to an HDMI Video Source**

If your video source has an HDMI port, you can connect it to the projector using an optional HDMI cable (PowerLite 1760W/1770W/1775W).

- 1. Make sure the projector and your video source are turned off.
- 2. Connect the HDMI cable to your video source's HDMI output port.

#### 3. Connect the other end to the projector's **HDMI** port.



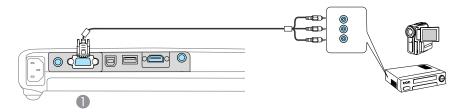
#### 1 **HDMI** port

Parent topic: Connecting to Video Sources

#### Connecting to a Component-to-VGA Video Source

If your video source has component video ports, you can connect it to the projector using a component-to-VGA video cable. Depending on your component ports, you may need to use an adapter cable along with a component video cable.

- 1. Make sure the projector and your video source are turned off.
- 2. Connect the component connectors to your video source's color-coded component video output ports, usually labelled **Y**, **Pb**, **Pr** or **Y**, **Cb**, **Cr**. If you are using an adapter, connect these connectors to your component video cable.
- 3. Connect the VGA connector to the projector's **Computer** port.



#### 1 **Computer** port

If your image colors appear incorrect, you may need to change the **Input Signal** setting in the projector's **Signal** menu.

Parent topic: Connecting to Video Sources

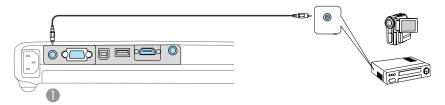
#### Related references

Input Signal Settings - Signal Menu

#### **Connecting to a Composite Video Source**

If your video source has a composite video port, you can connect it to the projector using an optional RCA-style video or A/V cable.

- 1. Make sure the projector and your video source are turned off.
- 2. Connect the cable with the yellow connector to your video source's yellow video output port.
- 3. Connect the other end to the projector's **Video** port.



#### 1 **Video** port

Parent topic: Connecting to Video Sources

#### **Connecting to a Video Source for Sound**

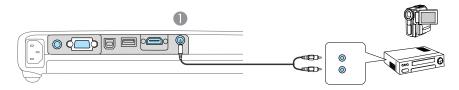
You can play sound through the projector's speaker system if your video source has audio output ports. Connect the projector to the video source using a stereo mini-jack adapter cable (with one 3.5 mm mini-plug and two RCA plugs).

**Note:** You can also use an RCA cable connected to the audio adapter cable that came with your projector.



1. Connect the audio cable to your video source's audio-out ports.

2. Connect the other end of the cable to the projector's **Audio** port.



#### 1 Audio port

Parent topic: Connecting to Video Sources

## **Connecting to External USB Devices**

Follow the instructions in these sections to connect external USB devices to the projector.

**USB Device Projection** 

Connecting a USB Device or Camera to the Projector

Selecting the Connected USB Source

Disconnecting a USB Device or Camera From the Projector

**Parent topic:** Projector Connections

#### **USB Device Projection**

You can project images and other content without using a computer or video device by connecting any of these devices to your projector:

- USB flash drive
- · Digital camera or camera phone
- USB hard drive
- Multimedia storage viewer
- · USB memory card reader

**Note:** Digital cameras or camera phones must be USB-mounted devices, not TWAIN-compliant devices.

You can also use the EasyMP PC Free feature to create your own slide shows containing converted PowerPoint files and image files, and project them from a connected USB device or memory card reader.

Parent topic: Connecting to External USB Devices

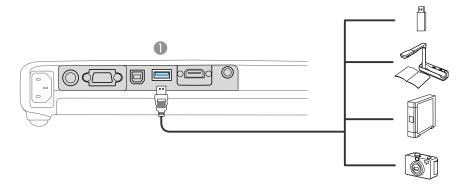
**Related topics** 

Projecting a Slide Show

#### Connecting a USB Device or Camera to the Projector

You can connect your USB device or camera to the projector's USB Type A port and use it to project a slide show or presentation.

- 1. If your USB device came with a power adapter, plug the device into an electrical outlet.
- 2. Connect the USB cable (or USB flash drive or USB memory card reader) into the projector's USB **TypeA** port shown below.



#### 1 USB TypeA port

**Note:** Do not connect a USB hub or a USB cable longer than 10 feet (3 m), or the device may not operate correctly.

3. Connect the other end of the cable (if applicable) to your device.

Parent topic: Connecting to External USB Devices

Related topics

Projecting a Slide Show

#### **Selecting the Connected USB Source**

You can switch the projector's display to the source you connected to a USB Type A port.

1. Make sure the connected USB source is turned on, if necessary.

2. Press the **USB** button on the remote control.

3. Press the button again to cycle through other USB sources, if available.

Parent topic: Connecting to External USB Devices

#### Disconnecting a USB Device or Camera From the Projector

When you finish presenting with a connected USB device or camera, you must prepare to disconnect the device from the projector.

1. Select **Exit** from any software running your slide show or presentation from the device.

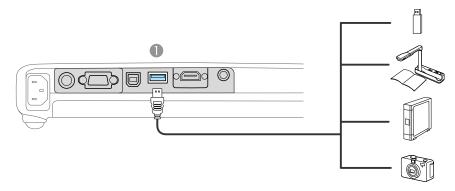
- 2. Disconnect the USB device or camera from the projector.
- 3. If the device has a power button, be sure to turn off and unplug the device.

Parent topic: Connecting to External USB Devices

#### **Connecting to a Document Camera**

You can connect an Epson document camera to your projector to project images viewed by the camera.

- 1. Locate the USB cable that came with the document camera.
- 2. Connect the USB cable to the projector's USB TypeA port.
- 3. Connect the other end of the cable to the document camera's USB Type B port.



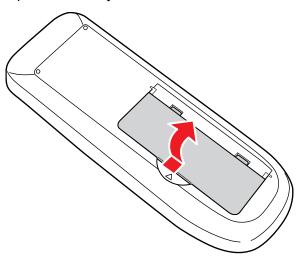
1 USB TypeA port

**Parent topic:** Projector Connections

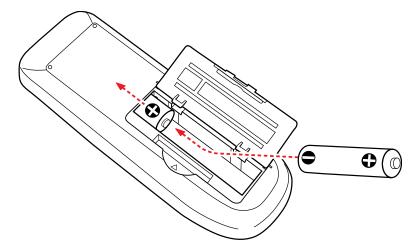
## **Installing Batteries in the Remote Control**

The remote control uses the two AA batteries that came with the projector.

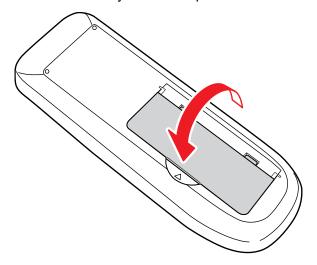
1. Open the battery cover as shown.



2. Insert the batteries with the + and – ends facing as shown.



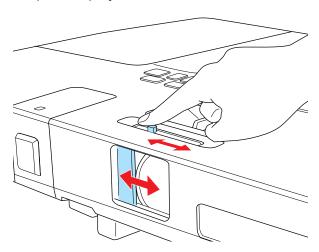
3. Close the battery cover and press it down until it clicks into place.



Parent topic: Setting Up the Projector

# **Opening the Lens Cover**

1. To open the projector's lens cover, slide the **A/V Mute** slide lever.



2. To cover the lens or temporarily turn off the projected picture and sound, slide the **A/V Mute** slide cover closed.

Parent topic: Setting Up the Projector

# **Using the Projector on a Network**

Follow the instructions in these sections to set up your projector for use on a network.

Wireless Network Projection
Setting Up Projector Network E-Mail Alerts
Setting Up Monitoring Using SNMP
Controlling a Networked Projector Using a Web Browser

## Wireless Network Projection

You can send images to your PowerLite 1760W/1770W/1775W projector through a wireless network. To do this, you must install the optional Epson 802.11g/b/n wireless LAN module (included with the PowerLite 1775W), and then set up your projector and computer for wireless projection.

There are two ways to connect the projector to your wireless network:

- Using the optional Epson Quick Wireless Connection USB key (Windows only; included with the PowerLite 1775W)
- Configuring the connection manually using the projector's **Network** menus

After installing the module and setting up the projector, install the network software from the *Epson Projector Software for Meeting & Presentation* CD on your computer. Use the following software and documentation to set up, control, and monitor wireless projection:

- **EasyMP Network Projection** software sets up your computer for wireless network projection. See the *EasyMP Network Projection Operation Guide* installed from your projector CD for instructions.
- Easy Management EasyMP Monitor software (Windows only) lets you monitor and control your
  projector through the network. You can download the latest software and documentation from the
  Epson web site. Go to www.epson.com/support (U.S.) or www.epson.ca/support (Canada) and select
  your projector.

Installing the Wireless LAN Module
Using Quick Wireless Connection (Windows Only)
Selecting Wireless Network Settings Manually
Selecting Wireless Network Settings in Windows
Selecting Wireless Network Settings in Mac OS
Setting Up Wireless Network Security

Parent topic: Using the Projector on a Network

#### Related references

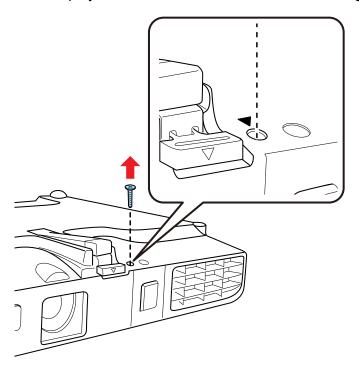
Optional Equipment and Replacement Parts

## **Installing the Wireless LAN Module**

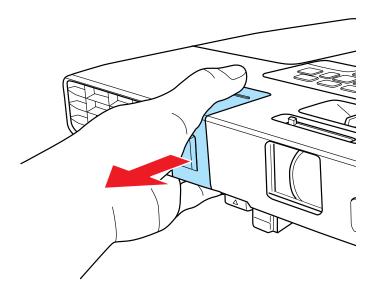
To use the PowerLite 1760W/1770W/1775W over a wireless network, install the Epson 802.11g/b/n wireless module in the projector. Do not install any other type of wireless module.

**Caution:** Never remove the module while its indicator light is green or flashing, or while you are projecting wirelessly. You may damage the module or lose data.

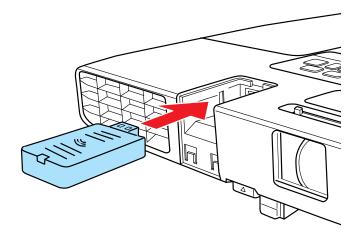
- 1. Turn off the projector and unplug the power cord.
- 2. Turn the projector over and remove the screw securing the LAN module cover.



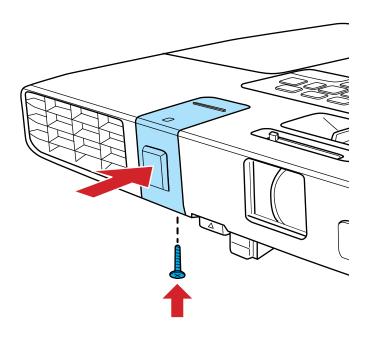
3. Remove the wireless LAN module cover.



4. Insert the wireless LAN module into the port.



5. Replace the cover and secure it using the screw you removed.



6. Plug in and turn on the projector.

Parent topic: Wireless Network Projection

## **Using Quick Wireless Connection (Windows Only)**

You can use the optional Epson Quick Wireless Connection USB key to quickly connect the projector to a Windows computer wirelessly. Then you can project your presentation and remove the key when you are done.

- 1. Turn on the projector.
- Connect the USB key to the projector's USB TypeA port.
   You see a projected message that the network information update is complete.
- 3. Remove the USB key.

4. Now connect the USB key to a USB port on your computer or notebook.

**Note:** In Windows Vista, if you see the AutoPlay window, select **Run LaunchU3.exe**, then select **Allow** on the next screen.

5. Follow the on-screen instructions to install the Quick Wireless Connection driver.

**Note:** If you see a Windows Firewall message, click **Yes** to disable the firewall.

After a few minutes, your computer image is displayed by the projector. If it does not appear, press the **LAN** button on your projector remote control or restart your computer.

- 6. Run your presentation as necessary.
- 7. When you finish projecting wirelessly, remove the USB key from your computer.

Note: You may need to restart your computer to reactivate your wireless interface.

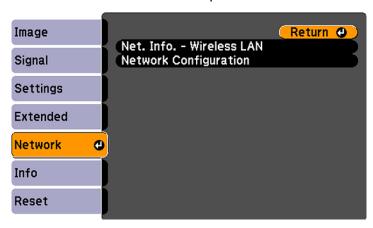
Parent topic: Wireless Network Projection

### **Selecting Wireless Network Settings Manually**

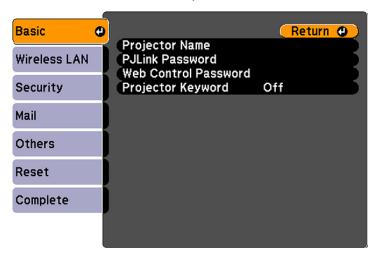
Before you can project from your wireless network, you must select the network settings for the projector using its menu system.

- 1. Turn on the projector.
- 2. Press the **Menu** button on the remote control.

3. Select the **Network** menu and press **Enter**.



- 4. Select **Network Configuration** and press **Enter**.
- 5. Select the **Basic** menu and press **Enter**.

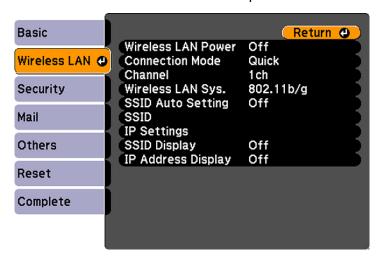


- 6. Select the following basic options as necessary:
  - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.

- PJLink Password lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
- **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web.
- Projector Keyword lets you turn on a security password to prevent access to the projector by anyone not in the room with it. You must enter a displayed, randomized keyword from a computer using the EasyMP Network Projection software to access the projector.

**Note:** Use the displayed keyboard to enter the name, passwords and keyword. Press the arrow buttons on the remote control to highlight characters and press **Enter** to select them.

7. Select the Wireless LAN menu and press Enter.



- 8. Select the settings on the Wireless LAN menu as necessary for your network.
- 9. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

After you complete the wireless settings for your projector, you need to select the wireless network on your computer.

Wireless LAN Menu Settings

Parent topic: Wireless Network Projection

## **Wireless LAN Menu Settings**

**Note:** See your projector's *EasyMP Network Projection Operation Guide* for details on selecting these settings.

Setting	Options	Description
Wireless LAN Power	On Off	Turns on wireless LAN support
Connection Mode	Quick Advanced	Selects the type of wireless connection:  Quick: lets you quickly connect to one computer or use the optional Epson Quick Wireless Connection USB key to connect
		<b>Advanced</b> : lets you connect to multiple computers via a wireless network access point
Channel	1ch 6ch 11ch	In <b>Quick</b> connection mode, selects the frequency band (channel) used by the wireless LAN
Wireless LAN Sys.	802.11b/g 802.11b/g/n	Sets the type of wireless LAN system the projector is connecting to
SSID Auto Setting	On Off	Turns on automatic SSID searching in <b>Quick</b> connection mode; set to <b>Off</b> when connecting to multiple projectors at the same time
SSID	Up 32 alphanumeric characters	Sets the SSID (network name) of the wireless LAN system the projector is connecting to

Setting	Options	Description
IP Settings	DHCP (On or Off)	Selects DHCP if your network assigns addresses automatically,
	IP Address	or turns off DHCP so you can
	Subnet Mask	enter the network's IP address,
	Gateway Address	subnet mask, and gateway address as needed
SSID Display	On	Selects whether to display the
	Off	SSID on the network standby screen
IP Address Display	On	Selects whether to display the IP
	Off	address on the network standby screen

Parent topic: Selecting Wireless Network Settings Manually

### **Selecting Wireless Network Settings in Windows**

Before connecting to the projector, select the correct wireless network on your computer.

- 1. To access your wireless utility software, double-click the network icon on the Windows taskbar.
- 2. Do one of the following:
  - If your projector is set up on an existing network (Advanced mode), select the network name (SSID).
  - If your projector is configured for **Quick** mode, select the SSID you assigned to the projector.
- Click Connect.

Parent topic: Wireless Network Projection

## **Selecting Wireless Network Settings in Mac OS**

Before connecting to the projector, select the correct wireless network on your Macintosh.

- 1. Click the AirPort icon on the menu bar at the top of the screen.
- 2. Make sure AirPort is turned on, then do one of the following:
  - If your projector is set up on an existing network (Advanced mode), select the network name (SSID).
  - If your projector is configured for **Quick** mode, select the SSID you assigned to the projector.

Parent topic: Wireless Network Projection

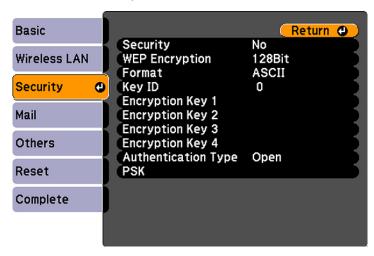
### **Setting Up Wireless Network Security**

You can set up security for your projector to use on the wireless network (PowerLite 1760W/1770W/1775W). Set up one of the following security options to match the settings used on your network:

- WEP encryption
- WPA security

**Note:** Check with your network administrator for guidance on entering the correct information.

- 1. Press the **Menu** button on the remote control.
- 2. Select the **Network** menu and press **Enter**.
- 3. Select **Network Configuration** and press **Enter**.
- 4. Select the **Security** menu and press **Enter**.



- 5. Select the security settings as necessary to match your network settings.
- 6. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Wireless Security Menu Settings

#### Parent topic: Wireless Network Projection

## **Wireless Security Menu Settings**

Settings on the Security menu let you select the type of security and security settings that match the network you are connecting the projector to.

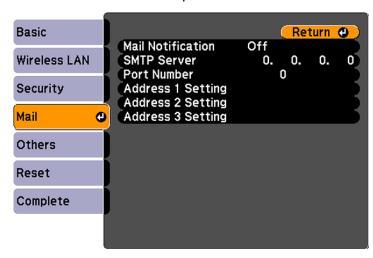
Setting	Options	Description
Security	<b>WEP</b> and two <b>WPA</b> types available	Selects the type of security used on the wireless network
WEP Encryption	128Bit 64Bit	For WEP security, selects the type of encryption coding
Format	ASCII HEX	For WEP security, selects the encryption input method:
		ASCII: enables text input HEX: enables hexadecimal input
Key ID	1 to 4	For WEP security, selects the WEP encryption key ID
Encryption Key 1 to Encryption Key 4	Various characters depending on selected WEP Encryption and Format settings	For the selected WEP Key ID setting, enter the key used for WEP encryption:
		128 bit ASCII: 13 alphanumeric characters
		128 bit HEX: 26 characters (0 to 9 and A to F)
		64 bit ASCII: 5 alphanumeric characters
		64 bit HEX: 10 characters (0 to 9 and A to F)
Authentication Type	Open Shared	For WEP security, selects the type of WEP authentication used
PSK	Various keys from 8 to 32 characters	For WPA-PSK or WPA-2-PSK security, selects the pre-shared key used on the network

Parent topic: Setting Up Wireless Network Security

## **Setting Up Projector Network E-Mail Alerts**

You can set up the projector to send you an e-mail alert over the network if there is a problem with the projector.

- 1. Press the **Menu** button on the remote control.
- 2. Select the **Network** menu and press **Enter**.
- 3. Select **Network Configuration** and press **Enter**.
- 4. Select the Mail menu and press Enter.



- 5. Turn on Mail Notification.
- 6. Enter the IP address for the **SMTP Server** option.

**Note:** Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255).

7. Select a number for the SMTP server **Port Number**, from 1 to 65535 (default is 25).

8. Choose an **Address** field, enter the e-mail address, and select the alerts you want to receive there. Repeat for up to three addresses.

**Note:** Your e-mail address can be up to 32 alphanumeric characters long.

9. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

**Note:** If a critical problem causes the projector to shut down, you may not receive an e-mail alert.

**Network Projector E-mail Alert Messages** 

Parent topic: Using the Projector on a Network

### **Network Projector E-mail Alert Messages**

When a problem occurs with a networked projector, and you selected to receive e-mail alerts, you receive an e-mail containing the following information:

- EPSON Projector on the subject line
- The name of the projector experiencing a problem
- · The IP address of the affected projector
- Detailed information about the problem

If the problem information includes a +, a problem has occurred. If the information includes a -, the problem has been solved.

**Note:** If a critical problem causes a projector to shut down, you may not receive an e-mail alert.

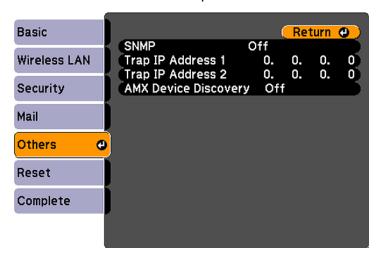
Parent topic: Setting Up Projector Network E-Mail Alerts

## **Setting Up Monitoring Using SNMP**

Network administrators can install SNMP (Simple Network Management Protocol) software on network computers so they can monitor projectors. If your network uses this software, you can set up the projector for SNMP monitoring.

- Press the Menu button on the remote control.
- 2. Select the **Network** menu and press **Enter**.
- 3. Select **Network Configuration** and press **Enter**.

4. Select the **Others** menu and press **Enter**.



5. Enter up to two IP addresses to receive SNMP notifications, using 0 to 255 for each address field.

**Note:** Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255).

- 6. If your network environment uses an AMX controller, turn on the **AMX Device Discovery** setting to allow the projector to be detected.
- 7. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Parent topic: Using the Projector on a Network

## Controlling a Networked Projector Using a Web Browser

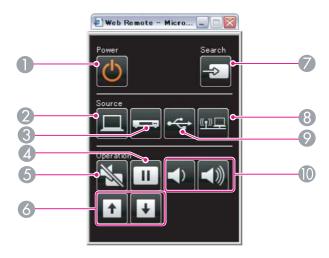
Once you have connected your projector to your network, you can select projector settings and control projection using a compatible web browser. This lets you access the projector remotely.

**Note:** The web setup and control features support Microsoft Internet Explorer 6.0 or later, and Safari on networks that do not use a proxy server for connection. You cannot select all of the projector menu settings or control all projector functions using a web browser.

1. Make sure the projector is turned on.

- 2. Start your web browser on a computer connected to the network.
- 3. Type the projector's IP address into the browser's address box and press the computer's **Enter** key. You see the Web Control screen.
- 4. To select projector menu settings, select the name of the menu and follow the on-screen instructions to select settings.
- 5. To control the projection remotely, select the **Web Remote** option.

You see this screen:



- 1 Power button control
- 2 Selects **Computer** port source
- 3 Selects **Video** and **HDMI** port sources
- 4 Freeze button control
- 5 A/V Mute button control
- 6 Page Up and Page Down button controls
- 7 Searches for sources
- 8 Selects the network source
- 9 Selects the USB Display or USB device source

#### 10 Volume button controls

6. Select the icon corresponding to the projector function you want to control.

Parent topic: Using the Projector on a Network

**Related concepts** 

Wireless Network Projection

# **Using Basic Projector Features**

Follow the instructions in these sections to use your projector's basic features.

Turning On the Projector

Turning Off the Projector

Selecting the Language for the Projector Menus

Adjusting the Image Height

Image Shape

Resizing the Image With the Zoom Ring

Focusing the Image

**Remote Control Operation** 

Selecting an Image Source

**Projection Modes** 

**Image Aspect Ratio** 

Color Mode

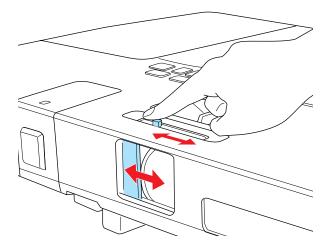
Controlling the Volume With the Volume Buttons

Projecting a Slide Show

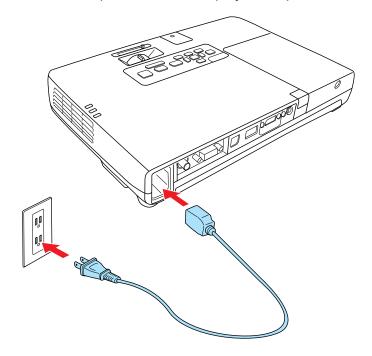
## **Turning On the Projector**

Turn on the computer or video equipment you want to use before you turn on the projector so it can display the image source.

1. Open the projector's lens cover.



2. Connect the power cord to the projector's power inlet.



3. Plug the power cord into an electrical outlet.

The projector's power light turns orange. This indicates that the projector is receiving power, but is not yet turned on.

Note: With Direct Power On turned on, the projector turns on as soon as you plug it in.

4. Press the power button on the projector or the remote control to turn on the projector.

The projector beeps and the power light flashes green as the projector warms up. After about five seconds, the power light stops flashing and turns green.

**Warning:** Never look into the projector lens when the lamp is on. This can damage your eyes and is especially dangerous for children.

If you do not see a projected image right away, try the following:

- Turn on the connected computer or video device.
- Insert a DVD or other video media, and press the Play button (if necessary).
- Press the **Source Search** button on the projector or remote control to detect the video source.

**Parent topic:** Using Basic Projector Features

Related references

Projector Setup Settings - Extended Menu

## **Turning Off the Projector**

Before turning off the projector, shut down any computer connected to it so you can see the computer display during shutdown.

**Note:** Turn off this product when not in use to prolong the life of the projector. Lamp life will vary depending upon mode selected, environmental conditions, and usage. Brightness decreases over time.

1. Press the power button on the projector or the remote control.

The projector displays a shutdown confirmation screen.

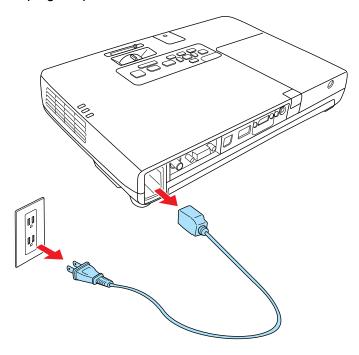


2. Press the power button again. (To leave it on, press any other button.)

The projector beeps twice, the lamp turns off, and the power light turns orange.

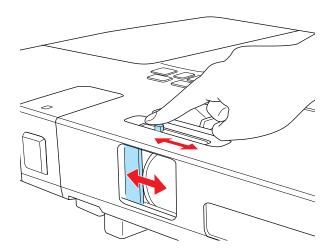
**Note:** With Epson's Instant Off technology, there is no cool-down period so you can pack up the projector for transport right away.

3. To transport or store the projector, make sure the power light is orange (but not flashing), then unplug the power cord.



**Caution:** To avoid damaging the projector or lamp, never unplug the power cord when the power light is green or flashing orange.

4. Close the projector's lens cover.



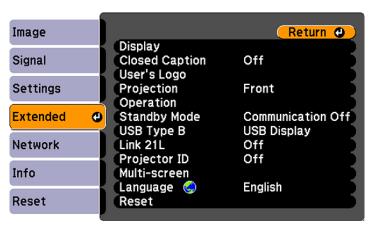
Parent topic: Using Basic Projector Features

## **Selecting the Language for the Projector Menus**

If you want to view the projector's menus and messages in another language, you can change the **Language** setting. The default language setting is **English**.

- 1. Turn on the projector.
- 2. Press the **Menu** button.

3. Press the down arrow button to select the **Extended** menu and press **Enter**.



**Note:** The **Network** menu does not appear on non-network projector models.

- 4. Press the down arrow button to select the **Language** setting and press **Enter**.
- 5. Select the language you want to use and press **Enter**.
- 6. Press **Menu** to exit the menus.

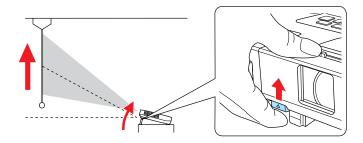
Parent topic: Using Basic Projector Features

## **Adjusting the Image Height**

If you are projecting from a table or other flat surface, and the image is too high or low, you can adjust the image height using the projector's adjustable feet.

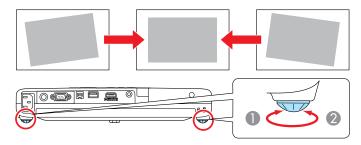
1. Turn on the projector and display an image.

2. To adjust the front foot, pull up on the foot release lever and lift the front of the projector.



The foot extends from the projector.

- 3. Release the lever to lock the foot.
- 4. If the image is tilted, rotate the rear feet to adjust their height.



If the projected image is unevenly rectangular, you need to adjust the image shape.

Parent topic: Using Basic Projector Features

Related concepts
Image Shape

Related references

Projector Feature Settings - Settings Menu

## Image Shape

You can project an evenly rectangular image by placing the projector directly in front of the center of the screen and keeping it level. If you place the projector at an angle to the screen, or tilted up or down, or off to the side, you may need to correct the image shape for the best display quality.

When you turn on automatic keystone correction in your projector's Settings menu, your projector automatically corrects keystone effects when you reposition the projector. (The PowerLite 1750/1760W/1770W automatically correct vertical keystoning and the PowerLite 1775W automatically corrects horizontal and vertical keystoning.)

Automatically Correcting Image Shape With Screen Fit Correcting Image Shape With Quick Corner Correcting Image Shape With the Keystone Buttons

Parent topic: Using Basic Projector Features

Related references

Projector Feature Settings - Settings Menu

Related tasks

Adjusting the Image Height

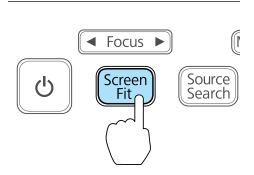
### **Automatically Correcting Image Shape With Screen Fit**

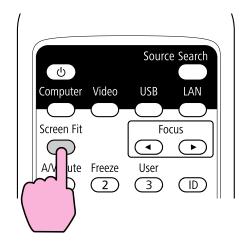
You can use the projector's Screen Fit feature to automatically correct the shape and position of images to fit on your screen (PowerLite 1775W).

The projector's sensor can detect the screen size and shape in these conditions:

- Projector is not mounted on the ceiling
- Screen size is 100 inches (254 cm) or less
- Projection distance is about 3 to 8 feet (1 to 2.5 m)
- Projection angle is about 20° right or left, or 30° up or down
- The room is not too dark
- Projection surface is not patterned and does not deflect the sensor in some way

1. Press the **Screen Fit** button on the projector or remote control.





You see a message on the screen.

- 2. Move the projector as necessary to display the message in the middle of the screen.
- 3. Zoom into the image until its white frame extends beyond the edges of the screen.
- 4. Press the **Screen Fit** button again.

Two displays flash briefly, then this message appears:

The revision result can be adjusted by on the main control panel.

- 5. Fine-tune the image shape as necessary using the arrow buttons on the control panel.
- 6. When you are finished, press **Esc**.

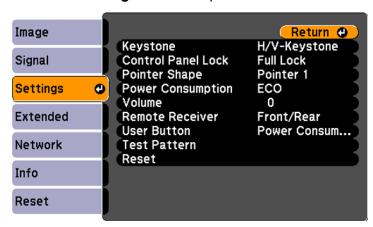
Now, if necessary, you can correct the image corners individually using Quick Corner by pressing the arrow buttons on the control panel.

Parent topic: Image Shape

## **Correcting Image Shape With Quick Corner**

You can use the projector's Quick Corner setting to correct the shape and size of an image that is unevenly rectangular on all sides.

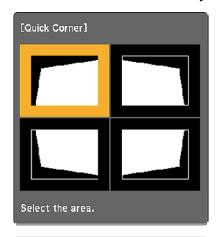
- 1. Turn on the projector and display an image.
- 2. Press the Menu button.
- 3. Select the **Settings** menu and press **Enter**.



4. Select the **Keystone** setting and press **Enter**.

5. Select the **Quick Corner** setting and press **Enter**.

You see the Quick Corner adjustment screen.



[♦/♦]:Select [Enter]:Enter [Esc]:Return (press for 2 seconds to reset/switch)

- 6. Use the arrow buttons on the projector or the remote control to select the corner of the image you want to adjust. Then press **Enter**.
- 7. Press the arrow buttons to adjust the image shape as necessary.
- 8. When you are finished, press **Esc**.

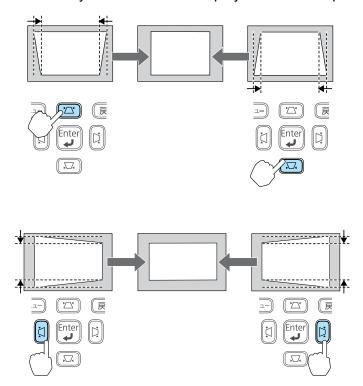
Parent topic: Image Shape

## **Correcting Image Shape With the Keystone Buttons**

You can use the projector's keystone correction buttons to correct the shape of an image that is unevenly rectangular on the sides.

1. Turn on the projector and display an image.

2. Press a keystone button on the projector's control panel.



After correction, your image is slightly smaller.

**Note:** If the projector is installed out of reach, you can also correct the image shape using the Keystone settings in the projector menus.

Parent topic: Image Shape

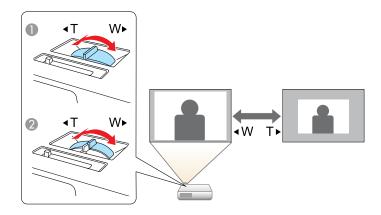
**Related references** 

Projector Feature Settings - Settings Menu

## Resizing the Image With the Zoom Ring

1. Turn on the projector and display an image.

2. To enlarge or reduce the image size, rotate the projector's zoom ring.



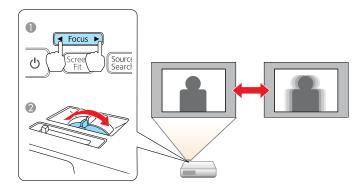
- 1 PowerLite 1775W
- 2 PowerLite 1750/1760W/1770W

Parent topic: Using Basic Projector Features

## **Focusing the Image**

Before you sharpen the focus, turn on the projector and display an image.

- PowerLite 1775W: Press the **Focus** buttons on the projector or remote control.
- PowerLite 1750/1760W/1770W: Rotate the projector's focus ring.



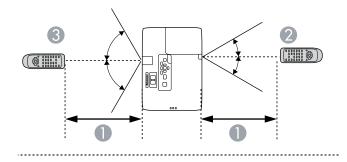
- 1 PowerLite 1775W
- 2 PowerLite 1750/1760W/1770W

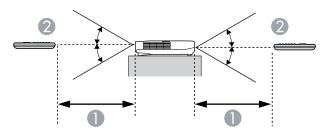
Parent topic: Using Basic Projector Features

# **Remote Control Operation**

The remote control lets you control the projector from almost anywhere in the room, up to 19.7 feet (6 m) away. You can point it at the screen, or the front or back of the projector.

Make sure that you aim the remote control at the projector's receivers within the angles listed below.





- 1 19.7 feet (6 m)
- 2 30°
- 3 60°

**Note:** Avoid using the remote control in conditions with bright fluorescent lights or in direct sunlight, or the projector may not respond to commands. If you will not use the remote control for a long time, remove the batteries.

Using the Remote Control as a Wireless Mouse
Using the Remote Control as a Presentation Pointer

Parent topic: Using Basic Projector Features

Related tasks

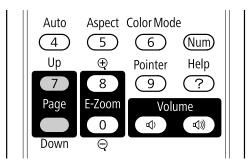
Replacing the Remote Control Batteries

### **Using the Remote Control as a Wireless Mouse**

You can use the projector's remote control as a wireless mouse so you can control your computer presentation from a distance.

**Note:** You cannot use the remote control's wireless mouse function when you use your projector's USB Type B port to project video.

- 1. Connect the projector to a computer using the projector's **Computer** or **HDMI** port.
- 2. Using a USB cable, connect the projector's USB **TypeB** port to a USB port on your computer (for wireless mouse support).
- 3. Press the Menu button, select the Extended menu, and select Link21L as the USB Type B setting.
- 4. Start your presentation.
- 5. Use the following buttons on the remote control to control your presentation:
  - To move through PowerPoint slides, press the Up and Down Page buttons.



- To move the cursor on the screen, use the arrow buttons.
- To left-click, press the **Enter** button once (press it twice to double-click).
- To right-click, press the **Esc** button.
- To drag-and-drop, hold the **Enter** button as you move the cursor with the arrow buttons, then release **Enter** at the destination.

Parent topic: Remote Control Operation

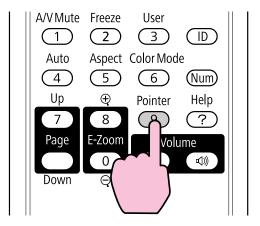
Related references

Projector Setup Settings - Extended Menu

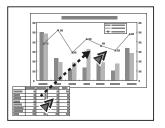
### **Using the Remote Control as a Presentation Pointer**

You can use the projector's remote control as a pointer to help you call out important information during a presentation. The default pointer shape is an arrow, but you can select an alternative shape using the **Settings** menu.

1. Press the **Pointer** button on the remote control.



2. Use the arrow buttons on the remote control to move the pointer on the screen.



3. Press **Esc** to clear the pointer from the screen.

Parent topic: Remote Control Operation

**Related references** 

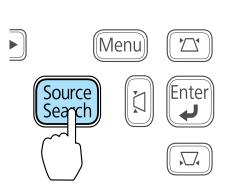
Projector Feature Settings - Settings Menu

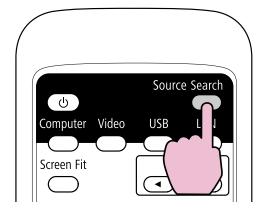
## **Selecting an Image Source**

If you connected multiple image sources to the projector, such as a computer and DVD player, you may want to switch from one image source to the other.

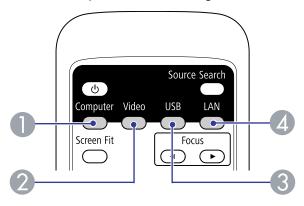
- 1. Make sure the connected image source you want to use is turned on.
- 2. For video image sources, insert a DVD or other video media and press **Play** (if necessary).

- 3. Do one of the following:
  - Press the **Source Search** button on the projector or remote control until you see the image from the source you want.





• Press the button for the source you want on the remote control. If there is more than one port for that source, press the button again to select the other source.



- 1 Computer port source
- 2 Video and HDMI sources
- 3 USB port sources (computer display and external devices)
- 4 Network source
- 4. If you see a blank screen or a "No Signal" message, try the following:
  - Check that the device cables are securely connected to the projector and the device.
  - Make sure the projector is turned on and its lens cover is open.
  - For laptop computers, make sure you have set up your laptop to output its display properly.

**Parent topic:** Using Basic Projector Features

### **Projection Modes**

Depending on how you positioned the projector, you may need to change the projection mode so your images project correctly.

- Front (default setting) lets you project from a table in front of the screen.
- Front/Ceiling flips the image over top-to-bottom to project upside-down from a ceiling or wall mount.
- **Rear** flips the image horizontally to project from behind a translucent screen.

 Rear/Ceiling flips the image over top-to-bottom and horizontally to project from the ceiling and the rear.

You can change the projection mode using the remote control or by changing a menu setting.

Changing the Projection Mode Using the Remote Control Changing the Projection Mode Using the Menus

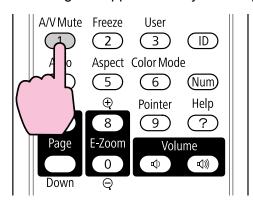
Parent topic: Using Basic Projector Features

### **Changing the Projection Mode Using the Remote Control**

You can change the projection mode to flip the image over top-to-bottom.

- 1. Turn on the projector and display an image.
- 2. Hold down the **A/V Mute** button on the remote control for five seconds.

The image disappears briefly and reappears flipped top-to-bottom.



3. To change projection back to the original mode, hold down the **A/V Mute** button for five seconds again.

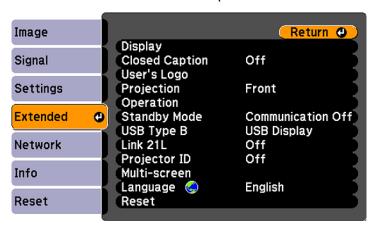
**Parent topic:** Projection Modes

### **Changing the Projection Mode Using the Menus**

You can change the projection mode to flip the image over top-to-bottom and/or left-to-right using the projector menus.

- 1. Turn on the projector and display an image.
- 2. Press the Menu button.

3. Select the **Extended** menu and press **Enter**.



4. Select the **Projection** setting and press **Enter**.

5. Select a projection mode and press **Enter**.

6. Press Menu to exit.

Parent topic: Projection Modes

### **Image Aspect Ratio**

The projector can display images in different width-to-height ratios called aspect ratios. Normally the input signal from your video source determines the image's aspect ratio. However, for certain images you can change the aspect ratio to fit your screen by pressing a button on the remote control.

If you always want to use a particular aspect ratio for a certain video input source, you can select it using the projector's menus.

Changing the Image Aspect Ratio Available Image Aspect Ratios

Parent topic: Using Basic Projector Features

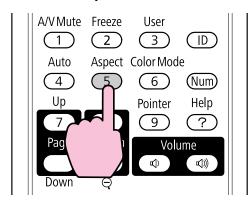
**Related references** 

Image Quality Settings - Image Menu

### **Changing the Image Aspect Ratio**

You can change the aspect ratio of the displayed image to resize it.

- 1. Turn on the projector and switch to the image source you want to use.
- 2. Press the **Aspect** button on the remote control.



The shape and size of the displayed image changes, and the name of the aspect ratio appears briefly on the screen.

3. To cycle through the available aspect ratios for your input signal, press the **Aspect** button repeatedly.

Parent topic: Image Aspect Ratio

### **Available Image Aspect Ratios**

You can select the following image aspect ratios, depending on the input signal from your image source.

**Note:** Black bands and cropped images may project in certain aspect ratios, depending on the aspect ratio and resolution of your input signal.

#### PowerLite 1750

Aspect ratio setting	Description	
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.	
4:3	Displays images using the full projection area at 4:3 aspect ratio.	
16:9	Converts the aspect ratio of the image to 16:9.	

#### PowerLite 1760W/1770W/1775W

Aspect ratio setting	Description
Auto	Automatically sets the aspect ratio according to the input signal.
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
16:9	Converts the aspect ratio of the image to 16:9.
Full	Displays images using the full width of the projection area, but does not maintain the aspect ratio.
Zoom	Displays images using the full width of the projection area and maintains the aspect ratio of the image.
Native	Displays images as is (aspect ratio and resolution are maintained).

**Note:** The **Auto** aspect ratio setting is available only for HDMI image sources.

Parent topic: Image Aspect Ratio

#### **Color Mode**

The projector offers different Color Modes to provide optimum brightness, contrast, and color for a variety of viewing environments and image types. You can select a mode designed to match your image and environment, or experiment with the available modes.

If you always want to use a particular color mode for a certain video input source, you can select it using the projector menus.

Changing the Color Mode Available Color Modes Turning On Auto Iris

Parent topic: Using Basic Projector Features

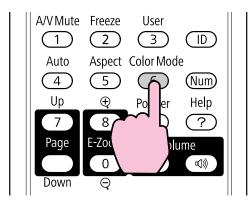
Related references

Image Quality Settings - Image Menu

### **Changing the Color Mode**

You can change the projector's Color Mode using the remote control to optimize the image for your viewing environment.

- 1. Turn on the projector and switch to the image source you want to use.
- 2. If you are projecting from a DVD player or other video source, insert a disc or other video media and press the **Play** button, if necessary.
- 3. Press the **Color Mode** button on the remote control to change the Color Mode.



The image quality changes and the name of the Color Mode appears briefly on the screen.

4. To cycle through all the available Color Modes for your input signal, press the **Color Mode** button repeatedly.

Parent topic: Color Mode

#### **Available Color Modes**

You can set the projector to use these Color Modes, depending on the input source you are using:

Color Mode	Description	
Presentation	Best for color presentations in a bright room	
Dynamic	Best for projecting in a bright room	
Theatre	Best for movies projected in a dark room	
Sports	Best for television images in a bright room	
sRGB	Best for standard sRGB computer displays	
Blackboard	Best for presentations onto a green chalkboard (adjusts the colors accordingly)	

Color Mode	Description	
Whiteboard	Best for presentations onto a whiteboard (adjusts the colors accordingly)	
Photo	Best for still images projected in a bright room	
Customized	Best for customizing a color mode using manual <b>Color Adjustment</b> settings in the Image menu.	

Parent topic: Color Mode

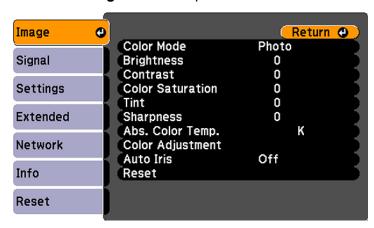
**Related references** 

Image Quality Settings - Image Menu

### **Turning On Auto Iris**

In certain color modes, you can turn on the Auto Iris setting to automatically optimize the image based on the brightness of the content you project.

- 1. Turn on the projector and switch to the image source you want to use.
- 2. Press the **Menu** button.
- 3. Select the **Image** menu and press **Enter**.



- 4. Select the **Auto Iris** setting and press **On**.
- 5. Press Menu to exit.

Parent topic: Color Mode

### Controlling the Volume With the Volume Buttons

You can use the **Volume** buttons on the remote control to adjust the volume as you project a presentation with audio. The volume buttons control the projector's internal speaker system.

You must adjust the volume separately for each connected input source.

- 1. Turn on the projector and start a presentation that includes audio.
- 2. Press the **Volume** buttons as necessary to lower or raise the volume.

A volume gauge appears on the screen.

3. To set the volume to a specific level for an input source, you can set the volume using a projector menu.

**Parent topic:** Using Basic Projector Features

Related references

Projector Feature Settings - Settings Menu

### **Projecting a Slide Show**

You can use your projector's **Slideshow** feature whenever you connect a USB device that contains compatible image files. This lets you quickly and easily display a slide show or presentation, and control it using the projector's remote control.

Slideshow Presentations

Supported Slideshow File Types

Starting a Slide Show or Presentation

Parent topic: Using Basic Projector Features

Related concepts
USB Device Projection

Related tasks

Connecting a USB Device or Camera to the Projector

#### **Slideshow Presentations**

Your projector's **Slideshow** feature lets you do the following:

Display individual images

- Present a slide show of all images in a folder
- Project PowerPoint presentations converted to "scenario" files using the EasyMP Slide Converter program included with your projector

**Note:** For instructions on converting PowerPoint files to the necessary scenario file format, see the *EasyMP Slide Converter Operation Guide* on your projector CD.

Parent topic: Projecting a Slide Show

### **Supported Slideshow File Types**

You can project these types of files using the projector's **Slideshow** feature.

**Note:** For best results, place your files on media that is formatted in FAT16/32.

File contents	File type (extension)	Details
Image .jpg		Make sure the file is not:
		CMYK format
		Progressive format
		Highly compressed
		Above 8192 × 8192 resolution
	.bmp	Make sure the file resolution is not above 1280 × 800
	.gif	Make sure the file is not:
		Above 1280 × 800 resolution
		Animated
	.png	Make sure the file resolution is not above 1280 × 800
Scenario	.fse	Main format for files converted from PowerPoint using EasyMP Slide Converter
	.sit	Compressed format for files converted from PowerPoint using EasyMP Slide Converter; does not include animation effects

Parent topic: Projecting a Slide Show

#### Starting a Slide Show or Presentation

After connecting a USB device to the projector, you can switch to the USB input source and start your slide show or presentation.

**Note:** You can change the **Slideshow** operation options or add special effects by highlighting **Option** at the bottom of the screen and pressing **Enter**.

1. Press the **USB** button on the projector remote control.

The **Slideshow** screen appears.



- 2. If you need to display files in a subfolder on your device, press the arrow buttons to highlight the folder and press the **Enter** button.
- 3. Do one of the following to start your slide show or presentation:
  - To display an individual image, press the arrow buttons to highlight the image and press **Enter**. (Press the **Esc** button to return to the file list screen.)
  - To display a slide show of all the images in a folder, press the arrow buttons to highlight the **Slideshow** option at the bottom of the screen and press **Enter**.
  - To display a presentation from a scenario file, press the arrow buttons to select the scenario file and press **Enter**.
- 4. While projecting, use the following commands to control the display as necessary:
  - To rotate a displayed image, press the up or down arrow button on the remote control.

- To move back up a folder level on your device, highlight **Back to Top** and press **Enter**.
- To view additional images in a folder, highlight **Next page** or **Previous page** and press **Enter**.
- To switch screens in a presentation, press the **Page Up** or **Page Down** button (for FSE files), or the left or right arrow button on the remote control and press **Enter** (for SIT files).

**Note:** To switch screens in FSE file animations, press the left or right arrow button and press **Enter**.

5. To stop the display, slide show, or presentation, follow the on-screen instructions or press the **Esc** button.

#### Slideshow Display Options

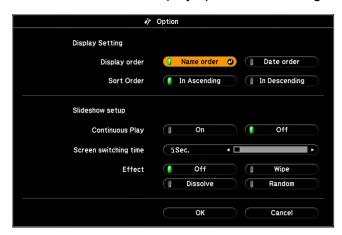
Parent topic: Projecting a Slide Show

Related tasks

Disconnecting a USB Device or Camera From the Projector

#### **Slideshow Display Options**

You can select these display options when using the projector's **Slideshow** feature.



Option	Available settings	Description
Display order	Name order	Displays files in name order
	Date order	Displays files in date order

Option	Available settings	Description
Sort Order	In Ascending	Sorts files in first-to-last order
	In Descending	Sorts files in last-to-first order
Continuous Play	On	Displays a slide show continuously
	Off	Displays a slide show one time through
Screen switching time	No	Does not display the next file automatically
	1Sec. to 60Sec.	Displays files for the selected time (in seconds) and switches to the next file automatically
Effect	Wipe	Transitions between images with a wipe effect
	Dissolve	Transitions between images with a dissolve effect
	Random	Transitions between images using a random variety of effects

Parent topic: Starting a Slide Show or Presentation

# **Adjusting Projector Features**

Follow the instructions in these sections to use your projector's feature adjustments.

Shutting Off the Picture and Sound Temporarily

Stopping Video Action Temporarily

Zooming Into and Out of Images

**Projector Security Features** 

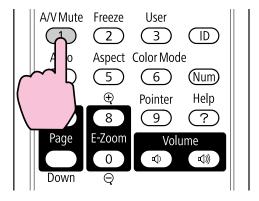
Projector Identification System for Multiple Projector Control

## **Shutting Off the Picture and Sound Temporarily**

You can temporarily turn off the projected picture and sound if you want to redirect your audience's attention during a presentation. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

If you want to display an image such as a company logo or picture when the presentation is stopped, you can set up this feature using the projector's menus.

1. Press the **A/V Mute** button on the remote control to temporarily stop projection and mute any sound.



2. To turn the picture and sound back on, press A/V Mute again.

**Note:** You can also stop projection using the **A/V Mute** slide lever on the projector.

Parent topic: Adjusting Projector Features

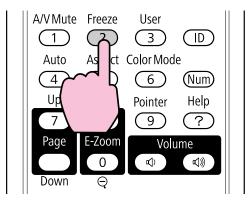
#### Related references

Projector Setup Settings - Extended Menu

## **Stopping Video Action Temporarily**

You can temporarily stop the action in a video or computer presentation and keep the current image on the screen. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

1. Press the **Freeze** button on the remote control to stop the video action.



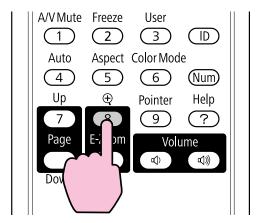
2. To restart the video action in progress, press **Freeze** again.

Parent topic: Adjusting Projector Features

## **Zooming Into and Out of Images**

You can draw attention to parts of a presentation by zooming into a portion of the image and enlarging it on the screen.

1. Press the **E-Zoom +** button on the remote control.



You see a crosshair on the screen indicating the center of the zoom area.

- 2. Use the following buttons on the remote control to adjust the zoomed image:
  - Use the arrow buttons to position the crosshair in the image area you want to zoom into.
  - Press the **E-Zoom** + button repeatedly to zoom into the image area, enlarging it up to four times.
  - To pan around the zoomed image area, use the arrow buttons.
  - To zoom out of the image, press the **E-Zoom –** button as necessary.
  - To return to the original image size, press **Esc**.

Parent topic: Adjusting Projector Features

### **Projector Security Features**

You can secure your projector to prevent theft or unintended use by setting up the following security features:

- Password security to prevent the projector from being turned on, and prevent changes to the startup screen and other settings.
- Button lock security to block operation of the projector using the buttons on the control panel.
- Security cabling to physically cable the projector in place.

Password Security Types
Locking the Projector's Buttons

#### Installing a Security Cable

**Parent topic:** Adjusting Projector Features

### **Password Security Types**

You can set up these types of password security using one shared password:

- Power On Protect password prevents anyone from using the projector without first entering a
  password.
- User's Logo Protect password prevents anyone from changing the custom screen the projector can display when it turns on or when you use the A/V Mute feature. The presence of the custom screen discourages theft by identifying the projector's owner.
- Network Protect password prevents anyone from changing the network settings in the projector menus.

Setting a Password

Selecting Password Security Types

Entering a Password to Use the Projector

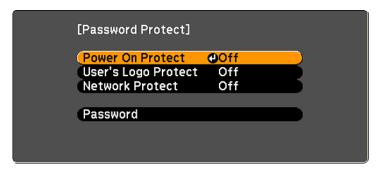
Saving a User's Logo Image to Display

**Parent topic:** Projector Security Features

#### **Setting a Password**

To use password security, you must set a password.

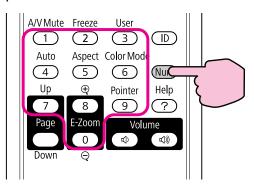
1. Hold down the **Freeze** button on the remote control until you see the Password Protect menu. This takes about five seconds.



2. Press the down arrow to select **Password** and press **Enter**.

You see the prompt "Change the password?".

- 3. Select **Yes** and press **Enter**.
- 4. Hold down the **Num** button on the remote control and use the numeric buttons to set a four-digit password.



The password displays as \*\*\*\* as you enter it. Then you see the confirmation prompt.

5. Enter the password again.

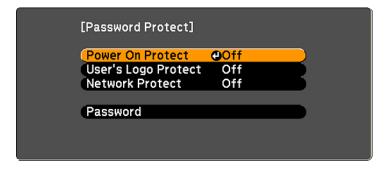
You see the message "Password accepted."

- 6. Press **Esc** to return to the Password Protect menu.
- 7. Make a note of the password and keep it in a safe place in case you forget it.

Parent topic: Password Security Types

#### **Selecting Password Security Types**

After setting a password, you see the Password Protect menu. Select the password security types you want to use.



If you do not see this menu, hold down the **Freeze** button on the remote control for five seconds until the menu appears.

- 1. To prevent unauthorized use of the projector, select **Power On Protect**, press **Enter**, select **On**, and press **Esc**.
- 2. To prevent changes to the User's Logo screen or related display settings, select **User's Logo Protect**, press **Enter**, select **On**, and press **Esc**.
- 3. To prevent changes to network settings, select **Network Protect**, press **Enter**, select **On**, and press **Esc**.

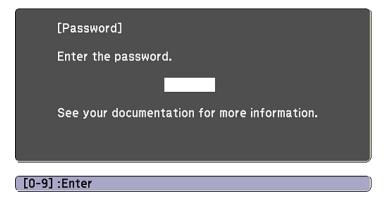
You can attach the Password Protect sticker to the projector as an additional theft deterrent.

**Note:** Be sure to keep the remote control in a safe place; if you lose it, you will not be able to enter the password required to use the projector.

Parent topic: Password Security Types

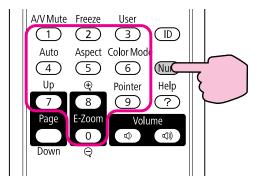
#### **Entering a Password to Use the Projector**

If a password is set up and a **Power On Protect** password is enabled, you see a prompt to enter a password whenever you turn on the projector.



You must enter the correct password to use the projector.

1. Hold down the **Num** button on the remote control while you enter the password using the numeric buttons.



The password screen closes.

- 2. If the password is incorrect, the following may happen:
  - You see a "wrong password" message and a prompt to try again. Enter the correct password to proceed.
  - If the password is incorrect three times, you see a message that the projector is locked and a request code. Write down the code, then disconnect the power cord from the projector, reconnect it, turn the projector back on, and enter the password again.
  - If the password is incorrect 30 times in a row, the projector remains locked. You must contact Epson for service and provide the request code displayed with the locking message.

Parent topic: Password Security Types

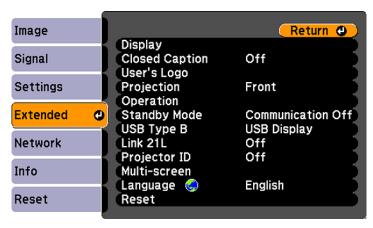
Related references
Where to Get Help

#### Saving a User's Logo Image to Display

You can transfer an image to the projector and then display it whenever the projector turns on. You can also display the image when the projector is not receiving an input signal or when you temporarily stop projection (using the A/V Mute feature). This transferred image is called the User's Logo screen.

The image you select as the User's Logo can be a photo, graphic, or company logo, which is useful in identifying the projector's owner to help deter theft. You can prevent changes to the User's Logo by setting up password protection for it.

- 1. Display the image you want to project as the User's Logo from a connected computer or video source.
- 2. Press the **Menu** button, select the **Extended** menu, and press **Enter**.



3. Select the **User's Logo** setting and press **Enter**.

You see a prompt asking if you want to use the displayed image as a user's logo.

4. Select **Yes** and press **Enter**.

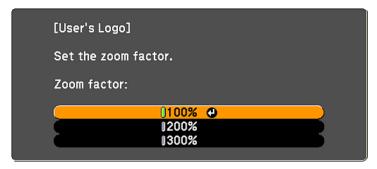
You see a selection box overlaying your image.

5. Use the arrow buttons on the remote control to surround the image area you want to use as the User's Logo and press **Enter**.

You see a prompt asking if you want to select this image area.

6. Select **Yes** and press **Enter**. (If you want to change the selected area, select **No**, press **Enter**, and repeat the last step.)

You see the User's Logo zoom factor menu.



7. Select a zoom percentage and press **Enter**.

You see a prompt asking if you want to save the image as the User's Logo.

8. Select **Yes** and press **Enter**.

**Note:** It takes a few moments for the projector to save the image; do not use the projector, its remote control, or any connected equipment until it is finished.

You see a completion message.

- 9. Press **Esc** to exit the message screen.
- 10. Select the **Extended** menu and press **Enter**.
- 11. Select **Display** and press **Enter**.
- 12. Select when you want to display the User's Logo screen:
  - To display it whenever there is no input signal, select **Display Background** and set it to **Logo**.
  - To display it whenever you turn the projector on, select **Startup Screen** and set it to **On**.
  - To display it whenever you press the A/V Mute button, select A/V Mute and set it to Logo.

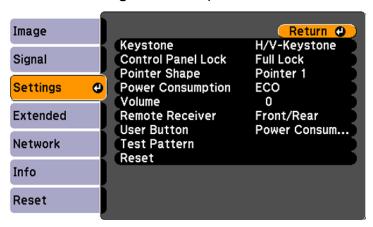
To prevent anyone from changing the User's Logo settings without first entering a password, set a password and enable User's Logo security.

Parent topic: Password Security Types

#### **Locking the Projector's Buttons**

You can lock the buttons on the projector's control panel to prevent anyone from using the projector. You can lock all the buttons or all the buttons except the power button.

- Press the **Menu** button.
- 2. Select the **Settings** menu and press **Enter**.



- 3. Select the **Control Panel Lock** setting and press **Enter**.
- 4. Select one of these lock types and press **Enter**:
  - To lock all of the projector's buttons, select **Full Lock**.
  - To lock all buttons except the power button, select **Partial Lock**.

You see a confirmation prompt.

5. Select **Yes** and press **Enter**.

Unlocking the Projector's Buttons

Parent topic: Projector Security Features

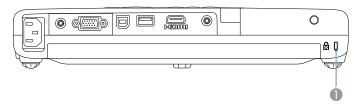
#### **Unlocking the Projector's Buttons**

If the projector's buttons have been locked, hold the **Enter** button on the projector's control panel for seven seconds to unlock them.

Parent topic: Locking the Projector's Buttons

### **Installing a Security Cable**

You can use the security slot on the back of the projector to attach a Kensington Microsaver Security system, available from Epson.



1 Security lock port

Parent topic: Projector Security Features

## **Projector Identification System for Multiple Projector Control**

You can operate multiple projectors using one remote control for more elaborate presentations. To do this, you assign an identification number to each projector and to the remote control. Then you can operate all the projectors at once or individually.

You can also match the colors displayed by any projectors you plan to use near each other.

**Caution:** Leave at least two feet (60 cm) of space between the projectors to prevent them from overheating.

Setting the Projector ID

Setting the Remote Control ID

Matching Multiple-Projector Display Quality

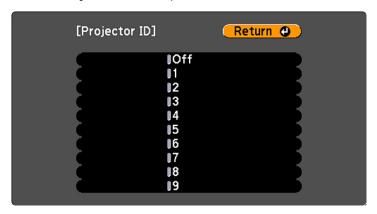
Parent topic: Adjusting Projector Features

### **Setting the Projector ID**

If you want to control multiple projectors from a remote control, give each projector a unique ID.

- 1. Press the **Menu** button.
- 2. Select the **Extended** menu and press **Enter**.

3. Select **Projector ID** and press **Enter**.



4. Use the arrow buttons on the remote control to select the identification number you want to use for the projector. Then press **Enter**.

Repeat these steps for all the other projectors you want to operate from one remote control.

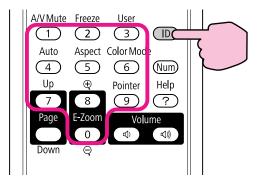
Parent topic: Projector Identification System for Multiple Projector Control

### **Setting the Remote Control ID**

The remote control's ID is set to zero by default so it can operate any compatible projector. If you want to set the remote control to operate only a particular projector, you need to set the remote control's ID to match the projector's ID.

- 1. Turn on the projector you want the remote control to operate with exclusively.
- 2. Make sure you know the projector's ID number as set in the **Extended** menu **Projector ID** setting.
- 3. Aim the remote control at that projector.

4. Hold down the **ID** button on the remote control while you press the numeric button that matches the projector's ID. Then release the buttons.



5. Press the **ID** button on the remote control to check if the ID-setting process worked.

You see a message displayed by the projector.

- If the remote control is listed as **On**, the remote control ID is set to operate only the listed projector.
- If the remote control is listed as **Off**, the remote control ID is not set properly. Repeat the steps above to set the ID to match the projector you want to control.

**Note:** You must set the remote control ID to match the projector ID each time you turn on the projector you have set it to control.

6. To allow the remote control to operate any compatible projectors again (ID number is zero), repeat the steps above and set the remote control ID number to **0**.

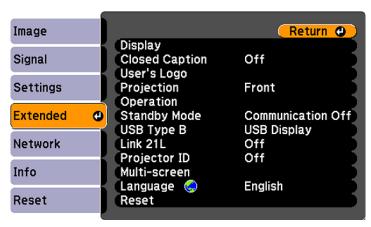
Parent topic: Projector Identification System for Multiple Projector Control

#### **Matching Multiple-Projector Display Quality**

You can match the display quality of multiple projectors that will project next to each other.

- 1. Turn on all the projectors on which you want to match the display quality.
- 2. Set ID numbers on each projector.
- 3. Make sure all the projectors are using the same **Color Mode** setting.
- 4. It is best to match two projectors at a time, so set the remote control ID to match the first projector.

5. Press the **Menu** button, select the **Extended** menu, and press **Enter**.



- 6. Select the Multi-screen setting and press Enter.
- 7. Set the **Adjustment Level** setting to **1** and press **Enter**.
- 8. Set the remote control ID to match the second projector.
- 9. Access the **Extended** menu **Multi-screen** setting on the second projector and set the **Adjustment Level** setting to **1**.
- 10. Adjust the **Brightness Correct.** setting on the projector with the darkest display so it matches the lighter display, and press **Enter**. (You may need to switch the remote control ID back and forth to make adjustments to each projector in all of these steps.)
- 11. Change the **Adjustment Level** setting to **5** on each projector, but this time match the lighter display to the darker one.
- 12. Adjust the **Brightness Correct.** setting on **Adjustment Level 2**, **3**, and **4** in the same way.
- 13. Adjust the green-to-red (**G/R**) and blue-to-yellow (**B/Y**) balance for all the levels on both projectors in the same way.
- 14. If you need to match more projectors, repeat these steps matching projector 3 to projector 2, 4 to 3, and so on.

Parent topic: Projector Identification System for Multiple Projector Control

# **Adjusting the Menu Settings**

Follow the instructions in these sections to access the projector menu system and change projector settings.

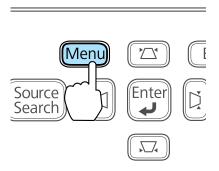
**Note:** The **Network** menu does not appear on non-network projector models.

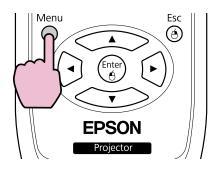
Using the Projector's Menus
Image Quality Settings - Image Menu
Input Signal Settings - Signal Menu
Projector Feature Settings - Settings Menu
Projector Setup Settings - Extended Menu
Projector Network Settings - Network Menu
Projector Information Display - Info Menu
Projector Reset Options - Reset Menu

## **Using the Projector's Menus**

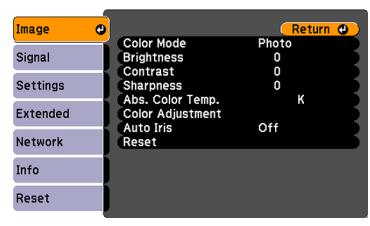
You can use the projector's menus to adjust the settings that control how your projector works. The projector displays the menus on the screen.

1. Press the **Menu** button on the control panel or remote control.





You see the menu screen displaying the Image menu settings.



2. Press the up or down arrow buttons to move through the menus listed on the left. The settings for each menu are displayed on the right.

**Note:** The available settings depend on the current input source.

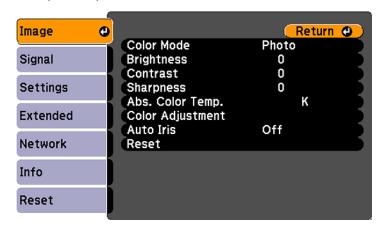
- 3. To change settings in the displayed menu, press **Enter**.
- 4. Press the up or down arrow button to move through the settings.
- 5. Change the settings using the buttons listed on the bottom of the menu screens.
- 6. To return all the menu settings to their default values, select **Reset**.
- 7. When you finish changing settings on a menu, press **Esc**.
- 8. Press **Esc** or **Menu** to exit the menu system.

Parent topic: Adjusting the Menu Settings

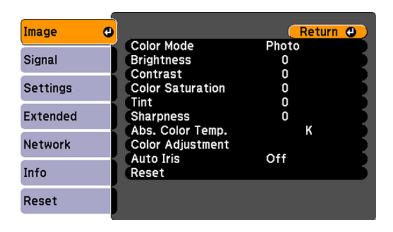
## **Image Quality Settings - Image Menu**

Settings on the Image menu let you adjust the quality of your image for the input source you are currently using. The available settings depend on the currently selected input source.

Computer input source



Video input source



To change settings for an input source, make sure the source is connected and select that source.

Setting	Options	Description
Color Mode	See the list of available Color Modes	Adjusts the vividness of image colors for various image types and environments
Brightness	Varying levels available	Lightens or darkens the overall image
Contrast	Varying levels available	Adjusts the difference between light and dark areas of the image
Color Saturation	Varying levels available	Adjusts the intensity of the image colors
Tint	Varying levels available	Adjusts the balance of green to magenta tones in the image
Sharpness	Varying levels available	Adjusts the sharpness or softness of image details
Abs. Color Temp (absolute color temperature)	5000 to 10000 °K (Kelvin)	Sets the color tone based on color temperature

Setting	Options	Description
Color Adjustment	Slider bars for each color	Adjusts the intensity of red, green, and blue hues in the image; for Customized Color Mode, also adjusts cyan, magenta, and yellow hues and saturation
Auto Iris	On Off	Adjusts the projected luminance based on the image brightness when certain Color Modes are selected

**Note:** The **Brightness** setting does not affect lamp brightness. To change the lamp brightness mode, use the **Power Consumption** setting.

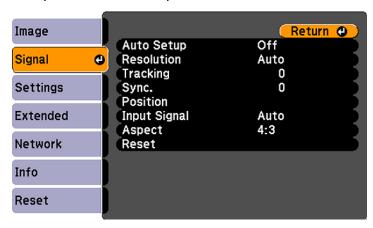
Parent topic: Adjusting the Menu Settings

Related references Available Color Modes

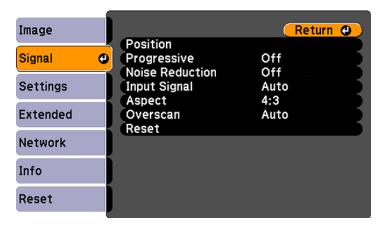
# **Input Signal Settings - Signal Menu**

Normally the projector detects and optimizes the input signal settings automatically. If you need to customize the settings, you can use the Signal menu.

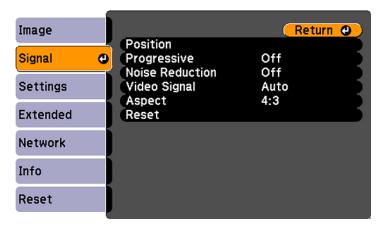
Computer/RGB video input source



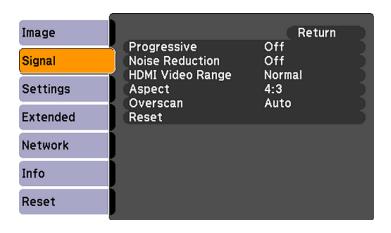
#### Component video input source



#### Composite video input source



HDMI input source (PowerLite 1760W/1770W/1775W)



**Note:** You can restore the default settings of the **Position**, **Tracking**, and **Sync** settings by pressing the **Auto** button on the remote control.

To change settings for an input source, make sure the source is connected and select that source.

Setting	Options	Description
Auto Setup	On	Automatically optimizes
	Off	computer image quality (when On)
Resolution	Auto	Sets the input signal resolution if
	Normal	not detected automatically using the <b>Auto</b> option.
	Wide	т.е. таке ор пет.
	Customized (1 and 2)	
	Various resolutions	
Tracking	Varying levels available	Adjusts signal to eliminate vertical stripes in computer images
Sync	Varying levels available	Adjusts signal to eliminate fuzziness or flickering in computer images

Setting	Options	Description
Position	Up, down, left, right	Adjusts the image location on the screen
Progressive	Off Video	Sets whether to convert interlaced-to-progressive signals for certain video image types
	Film/Auto	Off: for fast-moving video images
	1	Video: for most video images
		<b>Film/Auto</b> : for movies, computer graphics, and animation
Noise Reduction	Off NR1 NR2	Reduces flickering in analog images in two levels
HDMI Video Range (PowerLite 1760W/1770W/1775W)	Normal Expanded Auto	Sets the video range to match the setting of the device connected to the HDMI input port
Input Signal	Auto RGB	Specifies the signal type from input sources connected to computer ports
	Component	Auto: detects signals automatically
		RGB: corrects color for computer/RGB video inputs
		Component: corrects color for component video inputs
Video Signal	Auto Various video standards	Specifies the signal type from the input sources connected to the video ports
		Auto: detects signals automatically

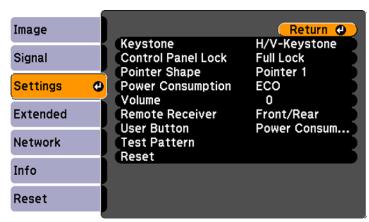
Setting	Options	Description
Aspect	See the list of available aspect ratios	Sets the aspect ratio (width-to-height ratio) for the selected input source
Overscan	Auto Off 4% 8%	Changes the projected image ratio to make the edges visible by a selectable percentage or automatically

**Related references** 

**Available Image Aspect Ratios** 

# **Projector Feature Settings - Settings Menu**

Options on the Settings menu let you customize various projector features.



Setting	Options	Description
Keystone	H/V Keystone Quick Corner	Adjusts image shape to rectangular (horizontally and vertically)
		H/V Keystone: lets you manually correct horizontal and vertical sides, or turn automatic correction on or off
		Quick Corner: select to correct image shape and alignment using an on-screen display
Control Panel Lock	Full Lock Partial Lock	Controls projector button locking to secure the projector
	Off	Full Lock: locks all buttons
		Partial Lock: locks all buttons except the power button
		Off: no buttons locked
Pointer Shape	Three shapes available	Changes the shape of the remote control pointer feature
Power Consumption	Normal ECO	Selects the brightness mode of the projector lamp
		Normal: sets maximum lamp brightness
		<b>ECO</b> : reduces lamp brightness and fan noise, and saves power and lamp life
Volume	Varying levels available	Adjusts the volume of projector's speaker system or external speakers
Remote Receiver	Front	Limits reception of remote control
	Rear	signals by the selected receiver; <b>Off</b> turns off all receivers
	Front/Rear	
	Off	

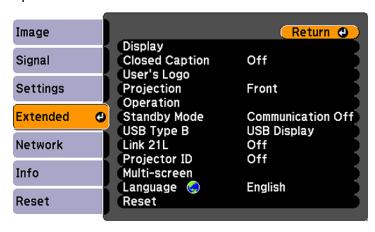
Setting	Options	Description
User Button	Power Consumption	Assigns a menu option to the
	Info	Jser button on the remote control for one-touch access
	Progressive	
	Closed Caption	
	Test Pattern	
	Multi-screen	
	Resolution	
Test Pattern	On	Displays a test pattern to assist in
	Off	focusing and zooming the image and correcting image shape (press <b>Esc</b> to cancel pattern display)

Related tasks

Correcting Image Shape With Quick Corner

# **Projector Setup Settings - Extended Menu**

Settings on the Extended menu let you customize various projector setup features that control its operation.



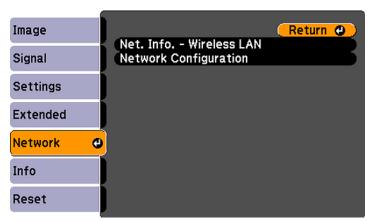
Setting	Options	Description
Display	Messages	Selects various display options
	Display Background Startup Screen	<b>Messages</b> : controls whether messages are displayed on the screen
	A/V Mute	Display Background: selects the screen color or logo to display when no signal is received
		Startup Screen: controls whether a special screen appears when the projector starts up
		A/V Mute: selects the screen color or logo to display when A/V Mute is turned on
Closed Caption	Off CC1 CC2	Controls use of closed captions and selects the closed caption channel
User's Logo	_	Creates a screen that the projector displays to identify itself and enhance security
Projection	Front Front/Ceiling Rear	Selects the way the projector faces the screen so the image is oriented correctly
	Rear Ceiling	

Setting	Options	Description
Operation	Direct Power On	Selects various operation options
	Sleep Mode Sleep Mode Timer	<b>Direct Power On</b> : lets you turn on the projector without pressing the power button
	Lens Cover Timer High Altitude Mode	<b>Sleep Mode</b> : automatically turns off the projector after an interval of inactivity
		Sleep Mode Timer: sets the interval for Sleep Mode
		Lens Cover Timer: automatically turns off the projector after 30 minutes if the lens cover is closed
		High Altitude Mode: regulates the projector's operating temperature at altitudes above 4921 feet (1500 m)
Standby Mode	Communication On Communication Off	Selects whether the projector can be monitored over a network when it is in standby mode (on) or not (off)
USB Type B	USB Display Link21L	Selects the use of the projector's USB Type B port
		USB Display: select when you connect a computer to the projector's USB TypeB port to display images
		Link21L: select for wireless mouse control when you connect your source to the projector's Computer or HDMI port
Projector ID	Off 1 through 9	Assigns an ID for the projector when you use multiple projectors

Setting	Options	Description
Multi-screen	Adjustment Level (1 to 9)	Matches display qualities and
	Brightness Correct.	colors of multiple projectors
	Color Correct.	
Language	Various languages available	Selects the language for projector menu and message displays (not changed by <b>Reset</b> option)

# **Projector Network Settings - Network Menu**

Settings on the Network menu let you view network information and set up the projector for monitoring and control over a network (PowerLite 1760W/1770W/1775W).



Setting	Options	Description
Net. Info - Wireless LAN	Connection mode	Displays wireless network status
	Antenna level	and details
	Projector Name	
	SSID	
	DHCP	
	IP Address	
	Subnet Mask	
	Gateway Address	
	MAC Address	
	Region Code	
Network Configuration	Accesses additional network menus	Configures your network settings

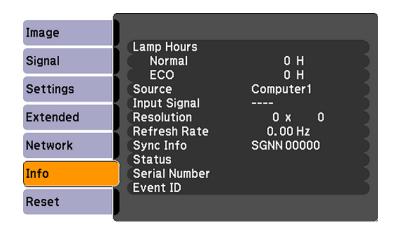
Related concepts

Wireless Network Projection

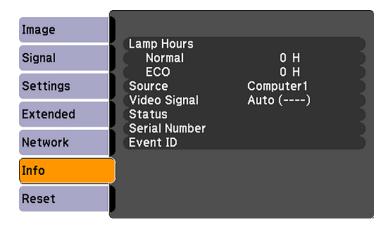
# **Projector Information Display - Info Menu**

You can display information about the projector and input sources by viewing the Info menu. However, you cannot change any settings in the menu.

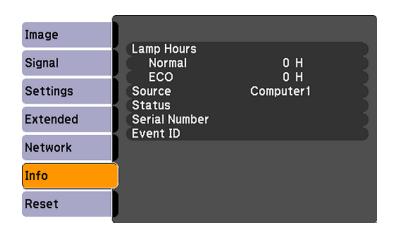
Computer input source



#### Video input source



USB or LAN input source



**Note:** The lamp usage timer does not register any hours until you have used the lamp for at least 10 hours. Available settings depend on the current input source.

Information item	Description
Lamp Hours	Displays the number of hours ( <b>H</b> ) the lamp has been used in <b>Normal</b> and <b>ECO</b> Power Consumption modes; if the information is displayed in yellow, obtain a genuine Epson replacement lamp soon
Source	Displays the name of the port to which the current input source is connected
Input Signal	Displays the input signal setting of the current input source
Resolution	Displays the resolution of the current input source
Video Signal	Displays the video signal format of the current input source
Refresh Rate	Displays the refresh rate of the current input source
Sync Info	Displays information that may be needed by a service technician
Status	Displays information about projector problems that may be needed by a service technician
Serial Number	Displays the projector's serial number

Information item	Description
Event ID (PowerLite 1760W/1770W/1775W)	Displays the Event ID number corresponding to a specific projector problem; see the list of Event ID codes

#### **Event ID Code List**

Parent topic: Adjusting the Menu Settings

**Related references** 

Optional Equipment and Replacement Parts

**Projector Lamp Specifications** 

#### **Event ID Code List**

If the **Event ID** option on the Info menu displays a code number, check this list of Event ID codes for the solution to the projector problem associated with the code (PowerLite 1760W/1770W/1775W).

Event ID code	Cause and solution		
0432	The EasyMP Network Projection program did not start. Turn the projector off and		
0435	then on again.		
0434	Unstable network communication. Check the network communication status, wait a		
0482	few moments, and try connecting to the network again.		
0484			
0485			
0433	Cannot display the transferred images. Restart the EasyMP Network Projection program.		
0481	Communication with computer was disconnected. Restart the EasyMP Network Projection program.		
0483	The EasyMP Network Projection program quit unexpectedly. Check the network		
04FE	communication status, then turn the projector off and then on again.		
0479	A projector system error has occurred. Turn the projector off and then on again.		
04FF			

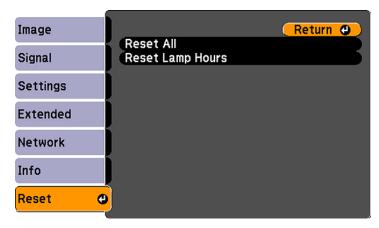
Event ID code	Cause and solution		
0891	Cannot find an access point with the same SSID. Set your computer, access point, and projector to the same SSID.		
0892	The WPA/WPA2 authentication type does not match. Make sure the wireless network security settings are correct.		
0893	The WEP/TKIP/AES encryption type does not match. Make sure the wireless network security settings are correct.		
0894	Communication with unauthorized access point was disconnected. Contact your network administrator.		
0898	Failed to acquire DHCP. Make sure the DHCP server is operating correctly. If you are not using DHCP, turn off the <b>DHCP</b> setting in the Network menus.		
0895	A communication error has occurred. Try restarting the EasyMP Network Project		
0899	program and restarting your projector. If that does not solve the problem, contact Epson for help.		

Parent topic: Projector Information Display - Info Menu

# **Projector Reset Options - Reset Menu**

You can reset most of the projector settings to their default values using the **Reset All** option on the Reset menu.

You can also reset the projector's lamp usage timer to zero when you replace the lamp using the **Reset Lamp Hours** option.



You cannot reset the following settings using the **Reset All** option:

- Input Signal
- User's Logo
- Language
- · Network menu items
- Lamp Hours
- Password
- User Button
- Multi-screen

Parent topic: Adjusting the Menu Settings

# **Maintaining and Transporting the Projector**

Follow the instructions in these sections to maintain your projector and transport it from place to place.

Projector Maintenance
Transporting the Projector

## **Projector Maintenance**

Your projector needs little maintenance to keep working at its best.

You may need to clean the lens periodically, and clean the air filter and air vents to prevent the projector from overheating due to blocked ventilation.

The only parts you should replace are the lamp, air filter, and remote control batteries. If any other part needs replacing, contact Epson or an authorized Epson servicer.

**Warning:** Before cleaning any part of the projector, turn it off and unplug the power cord. Never open any cover on the projector, except the lamp cover. Dangerous electrical voltages in the projector can injure you severely.

**Warning:** Do not try to service this product yourself, except as specifically explained in this manual. Refer all other servicing to qualified servicers.

Cleaning the Lens
Cleaning the Projector Case
Air Filter and Vent Maintenance
Projector Lamp Maintenance
Replacing the Remote Control Batteries

Parent topic: Maintaining and Transporting the Projector

## **Cleaning the Lens**

Clean the projector's lens periodically, or whenever you notice dust or smudges on the surface.

• To remove dust or smudges, gently wipe the lens with lens-cleaning paper.

 To remove stubborn smudges, moisten a soft, lint-free cloth with lens cleaner and gently wipe the lens.

**Warning:** Do not use a lens cleaner that contains flammable gas. The high heat generated by the projector lamp may cause a fire.

**Caution:** Do not use glass cleaner to clean the lens, or you may damage it. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

Parent topic: Projector Maintenance

#### **Cleaning the Projector Case**

Before cleaning the projector case, turn off the projector and unplug the power cord.

• To remove dust or dirt, use a soft, dry, lint-free cloth.

• To remove stubborn dirt, use a soft cloth moistened with water and mild soap.

**Caution:** Do not use wax, alcohol, benzene, paint thinner, or other chemicals to clean the projector case. These can damage the case.

Parent topic: Projector Maintenance

#### **Air Filter and Vent Maintenance**

The projector's air filter keeps the intake air clean, and its vents expel the exhaust. If dust collects on the air filter or vents, clean them as described in this manual. Dust clogs may cause the projector to overheat due to improper ventilation.

Be sure to clean the air filter and vents if you see a message telling you to do so. Also make sure nothing blocks the vents.

Cleaning the Air Filter and Vents

Replacing the Air Filter

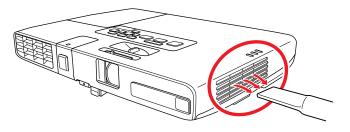
Parent topic: Projector Maintenance

#### **Cleaning the Air Filter and Vents**

Be sure to clean the projector's air filter or vents if they get dusty, or if you see a message telling you to clean them.

1. Turn off the projector and unplug the power cord.

2. Gently remove the dust using a small vacuum designed for computers or a very soft brush (such as a paintbrush).



**Note:** You can remove the air filter so you can clean both sides of it. Do not rinse the air filter in water, or use any detergent or solvent to clean it.

3. If dust is difficult to remove or the air filter is damaged, replace the air filter.

Parent topic: Air Filter and Vent Maintenance

#### Replacing the Air Filter

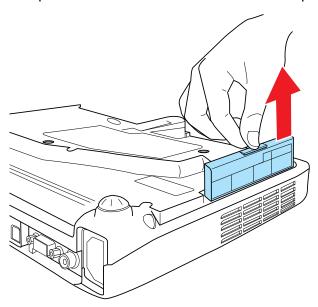
You need to replace the air filter in the following situations:

- · After cleaning the air filter, you see a message telling you to clean or replace it
- The air filter is torn or damaged

You can replace the air filter while the projector is mounted to the ceiling, if necessary.

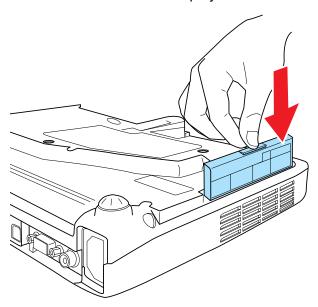
1. Turn off the projector and unplug the power cord.

2. Grasp the tab at the center of the air filter and pull it out of the projector.



**Note:** Air filters contain polycarbonate, ABS resin, and polyurethane foam. Dispose of used air filters according to local regulations.

3. Place the new air filter in the projector as shown and push gently until it clicks into place.



Parent topic: Air Filter and Vent Maintenance

# **Projector Lamp Maintenance**

The projector keeps track of the number of hours the lamp is used and displays this information in the projector's menu system.

Replace the lamp as soon as possible when the following occurs:

- The projected image gets darker or starts to deteriorate
- A message appears when you turn on the projector telling you to replace the lamp
- The projector's lamp light is flashing orange

Replacing the Lamp Resetting the Lamp Timer

Parent topic: Projector Maintenance

**Related references** 

Projector Information Display - Info Menu

# Projector Lamp Specifications Optional Equipment and Replacement Parts

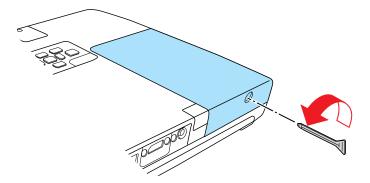
#### Replacing the Lamp

Before you replace the lamp, let the projector cool down for at least one hour so the lamp will not be hot.

Warning: Let the lamp fully cool before replacing it to avoid injury.

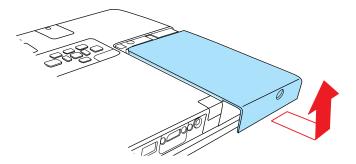
You can replace the lamp while the projector is mounted to the ceiling, if necessary.

- 1. Turn off the projector and unplug the power cord.
- 2. Allow the projector lamp to cool down for at least one hour.
- 3. Use the screwdriver included with the replacement lamp to loosen the screw securing the lamp cover.

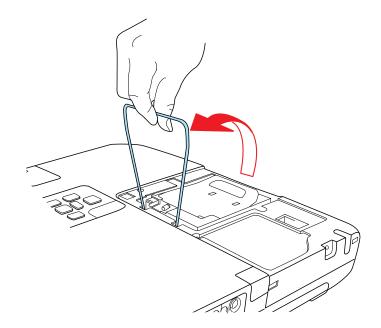


**Warning:** If the lamp is broken, glass fragments may be loose inside the lamp chamber. Be careful removing any broken glass to avoid injury.

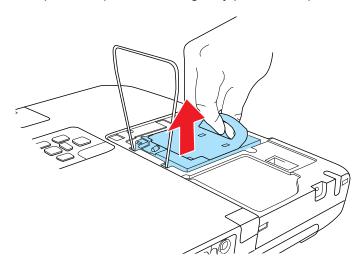
4. Slide the lamp cover out and lift it off.



5. Lift up the metal bar securing the lamp.



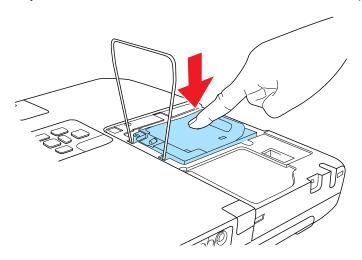
6. Lift up the lamp handle and gently pull the lamp out of the projector.



**Caution:** Lift the lamp handle carefully to avoid damaging the handle as you pull out the lamp.

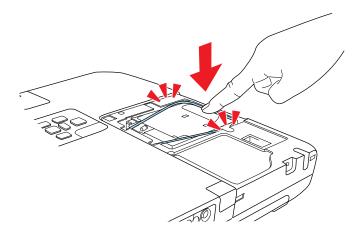
**Note:** Ho Imp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.

7. Gently insert the new lamp into the projector. If it does not fit easily, make sure it is facing the right way. Press down on the area shown to secure the lamp in place.

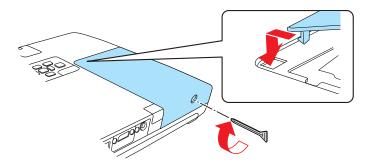


Caution: Do not touch any glass on the lamp assembly to avoid premature lamp failure.

8. Press the metal bar down over the lamp until it clicks into place on both sides.



9. Replace the lamp cover and tighten the screw to secure it.



**Note:** Be sure the lamp cover is securely installed or the lamp will not come on.

Reset the lamp timer to zero to keep track of the new lamp's usage.

Parent topic: Projector Lamp Maintenance

Related tasks

Resetting the Lamp Timer

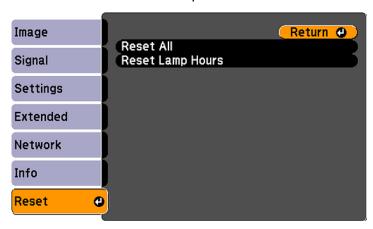
#### **Resetting the Lamp Timer**

You must reset the lamp timer after replacing the projector's lamp to clear the lamp replacement message and to keep track of lamp usage correctly.

**Note:** Do not reset the lamp timer if you have not replaced the lamp to avoid inaccurate lamp usage information.

- 1. Turn on the projector.
- 2. Press the **Menu** button.

3. Select the **Reset** menu and press **Enter**.



4. Select **Reset Lamp Hours** and press **Enter**.

You see a prompt asking if you want to reset the lamp hours.

5. Select **Yes** and press **Enter**.

**Parent topic:** Projector Lamp Maintenance

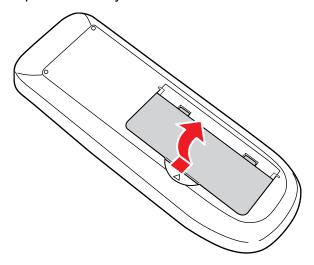
Related tasks
Replacing the Lamp

## **Replacing the Remote Control Batteries**

The remote control uses the two AA manganese or alkaline batteries. Replace the batteries as soon as they run out.

**Caution:** Use only the type of batteries specified in this manual. Do not install batteries of different types, or mix new and old batteries.

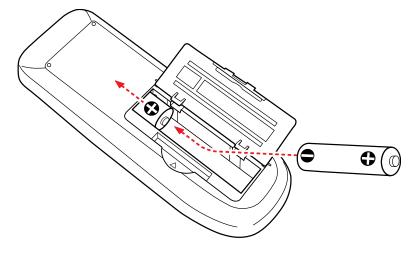
#### 1. Open the battery cover as shown.



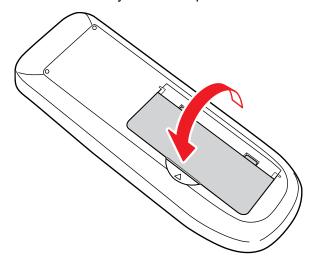
#### 2. Remove the old batteries.

**Warning:** If the battery fluid has leaked, wipe it away with a soft cloth and avoid getting the fluid on your hands. If it gets on your hands, wash them immediately to avoid injury.

3. Insert the batteries with the + and – ends facing as shown.



4. Close the battery cover and press it down until it clicks into place.



**Warning:** Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

Parent topic: Projector Maintenance

**Related references** 

**Remote Control Operation** 

# **Transporting the Projector**

The projector contains precision parts, some of which are glass. Follow these guidelines to transport or ship the projector safely:

- Close the lens cover to protect the lens.
- Remove any equipment connected to the projector.
- Use a carrying case to hand-carry the projector.
- When transporting the projector a long distance or as checked luggage, place it in a carrying case. Then pack the case in a firm box with cushioning around it and mark the box "Fragile".
- When shipping the projector for repairs, place it in its original packing materials, if possible, or use equivalent materials with cushioning around the projector. Mark the box "Fragile".

**Note:** Epson shall not be liable for any damages incurred during transportation.

Parent topic: Maintaining and Transporting the Projector

# **Solving Problems**

Check the solutions in these sections if you have any problems using the projector.

**Projection Problem Tips** 

**Projector Light Status** 

Using the Projector Help Displays

Solving Image or Sound Problems

Solving Projector or Remote Control Operation Problems

Solutions When Network Alert E-Mails are Not Received

Where to Get Help

# **Projection Problem Tips**

If the projector is not working properly, try turning it off and unplugging it. Then plug it back in and turn it on.

If this does not solve the problem, check the following:

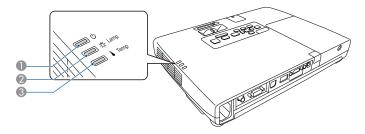
- The lights on the projector's control panel may indicate what the problem is.
- The projector's Help system can display information about common problems, if the projector is operating.
- The solutions in this manual can help you solve many problems.

If none of these solutions help, you can contact Epson for technical support.

Parent topic: Solving Problems

# **Projector Light Status**

The lights on the projector's control panel indicate the projector status and let you know when a problem occurs. Check the status and color of the lights and look for a solution in the table below.



- 1 Power light
- 2 Lamp light
- 3 Temperature light

Power light	Lamp light	Temperature light	Status and solution
Green	Off	Off	Normal operation.
Flashing green	Off	Off	Warming up. Wait for an image to appear.
Orange	Off	Off	Standby or sleep mode.
Flashing orange	Off	Off	Preparing network monitoring or shutting down. (Wait for the light to remain orange before unplugging the projector.)
Flashing red	Off	Flashing orange	Projector is too hot.
			Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.
			Make sure the environmental temperature is not too hot.
			If overheating continues, replace the air filter.
Red	Off	Red	Projector has overheated and turned off. Leave it turned off to cool down for five minutes.
			Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.
			If operating the projector at high altitude, turn on High Altitude Mode.
			If overheating continues, replace the air filter.
			If the problem persists, unplug the projector and contact Epson for help.

Power light	Lamp light	Temperature light	Status and solution
Red	Flashing red	Off	Lamp has a problem.
			Check to see if the lamp is burned out, broken, or installed incorrectly. Reseat or replace the lamp as necessary.
			<ul> <li>Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.</li> </ul>
			If operating the projector at high altitude, turn on High Altitude Mode.
			If the problem persists, unplug the projector and contact Epson for help.
On	Flashing orange	Off	Replace the lamp soon to avoid damage. Do not continue using the projector.
Red	Off	Flashing red	A fan or sensor has a problem. Turn the projector off, unplug it, and contact Epson for help.
Red or flashing red	Flashing red	Flashing red	Internal projector error. Turn the projector off, unplug it, and contact Epson for help.

**Note:** If the lights display a pattern not listed in the table above, turn the projector off, unplug it, and contact Epson for help.

Parent topic: Solving Problems

Related references

Projector Setup Settings - Extended Menu

Where to Get Help

Related tasks

Replacing the Lamp

Replacing the Air Filter

Cleaning the Air Filter and Vents

## **Using the Projector Help Displays**

You can display information to help you solve common problems using the projector's Help system.

- 1. Turn on the projector.
- 2. Press the **Help** button on the projector or the remote control.

You see the Help menu.

- 3. Use the up and down arrow buttons to highlight the problem you want to solve.
- 4. Press **Enter** to view the solutions.
- 5. When you are finished, do one of the following:
  - To select another problem to solve, press Esc.
  - To exit the help system, press Help.

**Parent topic:** Solving Problems

# **Solving Image or Sound Problems**

Check the solutions in these sections if you have any problems with projected images or sound.

Solutions When No Image Appears

Solutions When Image is Incorrect Using the USB Display Function

Solutions When "No Signal" Message Appears

Solutions When "Not Supported" Message Appears

Solutions When Only a Partial Image Appears

Solutions When the Image is Not Rectangular

Solutions When the Image Contains Noise or Static

Solutions When the Image is Fuzzy or Blurry

Solutions When the Image Brightness or Colors are Incorrect

Solutions When There is No Sound or Low Volume

Parent topic: Solving Problems

#### **Solutions When No Image Appears**

If no image appears, try the following solutions:

- Make sure the lens cover is open or off.
- Press the A/V Mute button to see if the image was temporarily turned off.

- Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.
- Press the projector's power button to wake it from standby or sleep mode. Also see if your connected computer is in sleep mode or displaying a blank screen saver.
- If you unplugged the projector and plugged it right back in, press the power button to turn on the projector (with **Direct Power On** enabled).
- Check the settings on the Signal menu to make sure they are correct for the current video source.
- Adjust the Brightness setting or select the Normal Power Consumption setting.
- Check the **Display** setting to make sure **Messages** is set to **On**.
- If the projector does not respond when you press the control panel buttons, the buttons may be locked. Unlock the buttons.
- If the projector does not respond when you press buttons on the remote control, make sure the remote receivers are turned on.

Parent topic: Solving Image or Sound Problems

Related references

Projector Setup Settings - Extended Menu Image Quality Settings - Image Menu Projector Feature Settings - Settings Menu Input Signal Settings - Signal Menu

#### Related tasks

Unlocking the Projector's Buttons

## Solutions When Image is Incorrect Using the USB Display Function

If no image appears or if the image appears incorrectly using the USB Display function, try the following solutions:

- Press the USB button on the remote control.
- Make sure the USB Type B setting in the Extended menu is set to USB Display.
- With Mac OS X, select the **USB Display** icon in the Dock or from the **Applications** folder.
- With Windows Media Center, reduce the screen size from full screen mode.
- · With Windows DirectX, turn off DirectX functions.
- Turn off the Transfer layered window setting in the Epson USB Display Settings program on your computer.

Parent topic: Solving Image or Sound Problems

Related references

Projector Setup Settings - Extended Menu

## **Solutions When "No Signal" Message Appears**

If the "No Signal" message appears, try the following solutions:

- Press the **Source Search** button and wait a few seconds for an image to appear.
- Turn on the connected computer or video source, and press **Play** to begin your presentation, if necessary.
- Check the connection from the projector to your video sources.
- If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.

Displaying From a PC Laptop
Displaying From a Mac Laptop

Parent topic: Solving Image or Sound Problems

#### **Displaying From a PC Laptop**

If you see the "No Signal" message when you display from a PC laptop, you need to set up the laptop to display on an external monitor.

- 1. Hold down the laptop's **Fn** key and press the key labelled with a monitor icon or **CRT/LCD**. (See your laptop manual for details.) Wait a few seconds for an image to appear.
- 2. To display on both the laptop's monitor and the projector, try pressing the same keys again.
- 3. If the same image is not displayed by the laptop and projector, check the Windows **Display** utility to make sure the external monitor port is enabled. (See your computer or Windows manual for instructions.)
- 4. If necessary, check your video card settings and set the multiple display option to **Clone**.

Parent topic: Solutions When "No Signal" Message Appears

#### Displaying From a Mac Laptop

If you see the "No Signal" message when you display from a Mac laptop, you need to set up the laptop for mirrored display.

- 1. Open the **System Preferences** utility and select **Displays**.
- 2. Select **Detect Displays**.

- 3. Do one of the following:
  - Mac OS X 10.6.x: Click Show displays in menu bar.
  - Other Mac OS X versions: Select the VGA Display or Color LCD option, click the Arrange or Arrangement tab, and check the Mirror Displays checkbox. (See your laptop manual for details.)

Parent topic: Solutions When "No Signal" Message Appears

### **Solutions When "Not Supported" Message Appears**

If the "Not Supported" message appears, try the following solutions:

- · Make sure the correct input signal is selected on the Signal menu.
- Make sure the computer's display resolution does not exceed the projector's resolution and frequency limit. If necessary, select a different display resolution for your computer. (See your computer manual for details.)

Parent topic: Solving Image or Sound Problems

Related references

Input Signal Settings - Signal Menu Supported Video Display Formats

### **Solutions When Only a Partial Image Appears**

If only a partial computer image appears, try the following solutions:

- Press the **Auto** button on the remote control to optimize the image signal.
- Try adjusting the image position using the **Position** menu setting.
- Press the **Aspect** button on the remote control to select a different image aspect ratio.
- If you zoomed into or out of the image using the E-Zoom buttons, press the Esc button to return to a full display.
- Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)
- Check the resolution assigned to your presentation files to see if they are created for a different resolution than you are projecting in. (See your software help for details.)

Parent topic: Solving Image or Sound Problems

**Related references** 

Input Signal Settings - Signal Menu Supported Video Display Formats

### Solutions When the Image is Not Rectangular

If the projected image is not evenly rectangular, try the following solutions:

- Place the projector directly in front of the center of the screen, facing it squarely, if possible.
- If you adjusted the projector height using the projector feet, press the keystone buttons on the projector to adjust the image shape.
- Turn on automatic keystone adjustments using the projector's menus.
- Press the Screen Fit button (PowerLite 1775W) and adjust the image shape using the on-screen display.
- Adjust the Quick Corner setting to correct the image shape.

Parent topic: Solving Image or Sound Problems

Related references

Projector Feature Settings - Settings Menu

Related tasks

Automatically Correcting Image Shape With Screen Fit Correcting Image Shape With Quick Corner

### **Solutions When the Image Contains Noise or Static**

If the projected image seems to contain electronic interference (noise) or static, try the following solutions:

- Check the cables connecting your computer or video source to the projector. They should be:
  - · Separated from the power cord to prevent interference
  - Securely connected at both ends
  - No longer than 9.8 feet (3 m)
  - · Not connected to an extension cable
- If you are projecting from a laptop computer, try turning off simultaneous display on the laptop screen to avoid splitting the video signal.
- Check the settings on the projector's Signal menu to make sure they match the video source. If available for your video source, adjust the **Progressive** and **Noise Reduction** settings.
- Select a computer video resolution that is compatible with the projector.
- If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the tracking and sync settings.

- If you adjusted the image shape using the projector controls, try decreasing the Sharpness setting to improve image quality.
- If you connected an extension cable, try projecting without it to see if it caused interference in the signal.

Parent topic: Solving Image or Sound Problems

Related references

Input Signal Settings - Signal Menu Supported Video Display Formats

Related tasks

Displaying From a Mac Laptop
Displaying From a PC Laptop

### Solutions When the Image is Fuzzy or Blurry

If the projected image is fuzzy or blurry, try the following solutions:

- Adjust the image focus.
- · Clean the projector lens.

**Note:** To avoid condensation on the lens after bringing the projector in from a cold environment, let the projector warm up to room temperature before using it.

- Position the projector close enough to the screen, and directly in front of it.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- When using the **Screen Fit** feature (PowerLite 1775W), position the projector at a compatible distance from the screen or adjust the image shape manually.
- Turn on automatic keystone adjustment in the projector's menus.
- Adjust the Sharpness setting to improve image quality.
- If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the tracking and sync. If any bands or overall blurriness remains, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.

Parent topic: Solving Image or Sound Problems

**Related references** 

Input Signal Settings - Signal Menu

Image Quality Settings - Image Menu Projection Distance

#### Related tasks

Automatically Correcting Image Shape With Screen Fit Focusing the Image Cleaning the Lens

## Solutions When the Image Brightness or Colors are Incorrect

If the projected image is too dark or light, or the colors are incorrect, try the following solutions:

- Press the Color Mode button on the remote control to try different color modes for the image and environment.
- Adjust the available settings on the Image menu for the current input source, such as Brightness,
   Contrast, Tint, Color Adjustment, and/or Color Saturation.
- Make sure you selected the correct input source on the Signal menu.
- Make sure all the cables are securely connected to the projector and your video device. If you
  connected long cables, try connecting shorter cables.
- For computers, check the color balance of your computer's display. (See your computer manual for details.)
- If the colors are incorrect from a video source, make sure you selected the correct Video Signal setting.
- If you are using the **ECO** Power Consumption setting, try selecting **Normal** in the Settings menu.
- If the image has been progressively darkening, you may need to replace the projector lamp soon.

Parent topic: Solving Image or Sound Problems

**Related concepts** 

**Projector Lamp Maintenance** 

Related references

Image Quality Settings - Image Menu Input Signal Settings - Signal Menu Projector Feature Settings - Settings Menu

### Solutions When There is No Sound or Low Volume

If there is no sound when you expect it or the volume is too low, try the following solutions:

- Press a Volume button on the remote control to adjust the volume.
- Press the A/V Mute button to resume video and audio if they were temporarily stopped.
- Press the Source Search button to switch to the correct input source, if necessary.
- Check your computer or video source to make sure the volume is turned up.
- Check the audio cable connections between the projector and your video source.
- If you do not hear sound from an HDMI source (PowerLite 1760W/1770W/1775W), set the connected device to PCM output.
- Make sure any connected audio cables are labelled "No Resistance".
- If you are using the USB Display function, turn on the **Output audio from the projector** setting in the Epson USB Display Settings program on your computer.

Parent topic: Solving Image or Sound Problems

## **Solving Projector or Remote Control Operation Problems**

Check the solutions in these sections if you have problems operating the projector or remote control.

Solutions to Projector Power or Shut-Off Problems

Solutions to Problems With the Remote Control

Solutions to Password Problems

Parent topic: Solving Problems

### **Solutions to Projector Power or Shut-Off Problems**

If the projector does not come on when you press the power button or shuts off unexpectedly, try the following solutions:

- Make sure the power cord is securely connected to the projector and to a working electrical outlet.
- The projector's buttons may be locked for security. Unlock the buttons or use the remote control to turn on the projector.
- The power cord may be defective. Disconnect the cord and contact Epson.
- If the projector's lamp shuts off unexpectedly, it may have entered sleep mode after a period of inactivity. Begin a presentation to wake the projector.

- If the projector's lamp shuts off and the power and **Temp** lights are red, the projector has overheated and shut off. Check the solutions for this light status.
- If the power button on the remote control does not turn on the projector, check its batteries and make sure the **Remote Receivers** setting is turned on in the projector's menus.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Feature Settings - Settings Menu

**Projector Light Status** 

Related tasks

Unlocking the Projector's Buttons

### Solutions to Problems With the Remote Control

If the projector does not respond to remote control commands, try the following solutions:

- Check that the remote control batteries are installed correctly and have power. If necessary, replace
  the batteries.
- Make sure you are operating the remote control within the reception angle and range of the projector.
- Check to see if a button on the remote control is stuck down, causing it to enter sleep mode. Release the button to wake the remote control up.
- Strong fluorescent lighting, direct sunlight, or infrared device signals may be interfering with the
  projector's remote receivers. Dim the lights or move the projector away from the sun or interfering
  equipment.
- If available, turn off one of the remote receivers in the projector's menu system, or check if all the remote receivers were turned off.
- If you assigned an ID number to the remote control to operate multiple projectors, you may need to check or change the ID setting.
- If you lose the remote control, you can order another one from Epson.

Parent topic: Solving Projector or Remote Control Operation Problems

**Related concepts** 

Projector Identification System for Multiple Projector Control

Related references

Projector Feature Settings - Settings Menu Optional Equipment and Replacement Parts

#### Remote Control Operation

### **Solutions to Password Problems**

If you cannot enter or remember a password, try the following solutions:

- You may have turned on password protection without first setting a password. Try entering 0000 using the remote control.
- If you have entered an incorrect password too many times and see a message displaying a request code, write down the code and contact Epson.
- If you lose the remote control you cannot enter a password. Order a new one from Epson.

Parent topic: Solving Projector or Remote Control Operation Problems

### Solutions When Network Alert E-Mails are Not Received

If you do not receive an e-mail alerting you to problems with a projector over the network (PowerLite 1760W/1770W/1775W), try the following solutions:

- Make sure the projector is turned on and connected to the network correctly. (If an error shut down the projector, it cannot send an e-mail.)
- Make sure you set up the projector e-mail alert settings correctly on the projector's network Mail menu or in the network software.
- Set the Standby Mode to Communication On so the network software can monitor the projector in standby mode.

Parent topic: Solving Problems

**Related concepts** 

Wireless Network Projection

Related references

Projector Setup Settings - Extended Menu Projector Network Settings - Network Menu

## Where to Get Help

If you need to contact Epson for technical support services, use the following support options.

#### **Internet Support**

Visit Epson's support website at www.epson.com/support (U.S.) or www.epson.ca/support (Canada) for solutions to common problems with your projector. You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

### **Speak to a Support Representative**

To use the Epson PrivateLine Support service, call (800) 637-7661 and enter the PIN on the included Epson PrivateLine Support card. This is the fastest way of speaking to a live representative, and it's free. This service is available 6 AM to 6 PM, Pacific Time, Monday through Friday, for the duration of your warranty period.

You may also speak with a projector support specialist by dialing one of these numbers:

- U.S.: (562) 276-4394, 6 AM to 6 PM, Pacific Time, Monday through Friday
- Canada: (905) 709-3839, 6 AM to 6 PM, Pacific Time, Monday through Friday

Days and hours of support are subject to change without notice. Toll or long distance charges may apply.

Before you call, have the following information ready:

- Product name
- Product serial number (located on the bottom or rear of the projector, or in menu system)
- Proof of purchase (such as a store receipt) and date of purchase
- · Computer or video configuration
- · Description of the problem

### **Purchase Supplies and Accessories**

You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766). Or you can purchase online at www.epsonstore.com (U.S. sales) or www.epson.ca (Canadian sales).

To purchase a replacement remote control, call (562) 276-4394 (U.S.) or (905) 709-3839 (for dealer referral in Canada).

Parent topic: Solving Problems

# **Technical Specifications**

These sections list the technical specifications of your projector.

**General Projector Specifications** 

**Projector Lamp Specifications** 

**Remote Control Specifications** 

**Projector Dimension Specifications** 

**Projector Electrical Specifications** 

**Projector Environmental Specifications** 

**Projector Safety and Approvals Specifications** 

Supported Video Display Formats

## **General Projector Specifications**

Type of display Poly-silicon TFT active matrix

Resolution PowerLite 1750:

1024 x 768 pixels (XGA)

PowerLite 1760W/1770W/1775W:

1280 x 800 pixels (WXGA)

**Lens** F=1.58 to 1.7

Focal length: 13.52 to 16.22 mm

**Color reproduction** Full color, 16.77 million colors

Brightness PowerLite 1750/1760W:

Normal Power Consumption mode:

White light output 2600 lumens (ISO 21118 standard)

Color light output 2600 lumens

**PowerLite 1770W/1775W**:

Normal Power Consumption mode:

White light output 3000 lumens (ISO 21118 standard)

Color light output 3000 lumens

**Contrast ratio** 2000:1 with Auto Iris **On** and **Normal** Power Consumption mode

**Image size** 30 to 300 inches (0.8 to 7.6 m)

Projection distance PowerLite 1750:

2.36 to 28.8 feet (0.72 to 8.77 m) **PowerLite 1760W/1770W/1775W**:

2.2 to 26.8 feet (0.67 to 8.18 m)

**Projection methods** Front, rear, ceiling-mounted

Optical aspect ratio PowerLite 1750:

(width-to-height) 4:3

PowerLite 1760W/1770W/1775W:

16:10

Focus adjustment PowerLite 1750/1760W/1770W:

Manual

PowerLite 1775W:

Powered

**Zoom adjustment** Manual **Zoom ratio** 1:1.2

(Tele-to-Wide)

Internal sound system 1 W monaural

**Noise level** 40 dB (Normal Power Consumption mode)

30 dB (ECO Power Consumption mode)

Keystone correction angle PowerLite 1750/1760W/1770W:

Vertical: ± 45° (manual); ± 30° (using Auto Keystone)

Horizontal: ± 30° (manual only)

PowerLite 1775W:

Vertical: ± 45° (manual); ± 30° (using Auto Keystone or Screen Fit) Horizontal: ± 30° (manual); ± 20° (using Auto Keystone or Screen

Fit)

**USB Type B port compatibility** USB 1.1 and 2.0 compliant for USB display or external mouse

control

USB Type A port compatibility One USB 1.1 and 2.0 compliant port for USB device input or

document camera display

Parent topic: Technical Specifications

## **Projector Lamp Specifications**

Type UHE (Ultra High Efficiency)

Power consumption PowerLite 1750/1770W/1775W:

230 W

PowerLite 1760W:

205 W

**Lamp life** Up to about 4000 hours

**Note:** Turn off this product when not in use to prolong the life of the projector. Lamp life will vary depending upon mode selected, environmental conditions, and usage. Brightness decreases over time.

Parent topic: Technical Specifications

## **Remote Control Specifications**

**Reception range** 19.7 feet (6 m)

Batteries Two alkaline or manganese AA

**Parent topic:** Technical Specifications

## **Projector Dimension Specifications**

Height 1.7 inches (44 mm)

(without feet extended)

**Width** 11.5 inches (292 mm)

**Depth** 8.3 inches (210 mm)

Weight PowerLite 1750:

3.66 lb (1.66 kg)

PowerLite 1760W/1770W:

3.7 lb (1.68 kg) **PowerLite 1775W**:

3.77 lb (1.71 kg)

Parent topic: Technical Specifications

## **Projector Electrical Specifications**

Rated frequency 50/60 Hz

Power supply 100 to 240 VAC  $\pm 10\%$ 

PowerLite 1760W:

3 to 1.4 A

PowerLite 1750/1770W/1775W:

3.3 to 1.5 A

Power consumption PowerLite 1760W:

(100 to 120 V) Operating: 293 W

Standby: 0.38 W (Communication Off), 7.4 W (Communication On)

PowerLite 1750/1770W/1775W:

Operating: 322 W

Standby: 0.38 W (Communication Off), 7.4 W (Communication On)

Power consumption PowerLite 1760W:

(200 to 240 V) Operating: 278 W

Standby: 0.44 W (Communication Off), 7.7 W (Communication On)

PowerLite 1750/1770W/1775W:

Operating: 304 W

Standby: 0.44 W (Communication Off), 7.7 W (Communication On)

**Parent topic:** Technical Specifications

## **Projector Environmental Specifications**

**Temperature** Operating: 41 to 95 °F (5 to 35 °C)

Storage: 14 to 140 °F (-10 to 60 °C)

Humidity (relative,<br/>non-condensing)Operating: 20 to 80%Storage: 10 to 90%

Operating altitude Up to 4921 feet (1500 m)

Up to 7500 feet (2286 m) with High Altitude Mode enabled

**Parent topic:** Technical Specifications

## **Projector Safety and Approvals Specifications**

United States FCC Part 15 Class B (DoC)

UL60950-1

Canada ICES-003 Class B

CSA C22.2 No. 60950-1

**Parent topic:** Technical Specifications

## **Supported Video Display Formats**

For best results, your computer monitor or video card resolution should be set to display in the projector's native resolution. However, your projector includes Epson's SizeWise chip that supports other computer display resolutions, so your image will be resized to fit automatically.

Your computer's monitor or video card refresh rate (vertical frequency) must be compatible with the projector. (See your computer or video card manual for details.)

The table below lists the compatible refresh rate and resolution for each compatible video display format.

Display format	Refresh rate (in Hz)	Resolution (in pixels)
Computer signals (analog RGB)		
VGA	60/72/75/85	640 × 480
SVGA	56/60/72/75/85	800 × 600
XGA	60/70/75/85	1024 × 768
WXGA	60	1280 × 768
WXGA	60	1360 × 768
WXGA	60/75/85	1280 × 800
SXGA	70/75/85	1152 × 864
SXGA	60/75/85	1280 × 960
SXGA	60/75/85	1280 × 1024
SXGA+	60/75	1400 × 1050
WXGA+	60/75/85	1440 × 900
UXGA	60	1600 × 1200
WSXGA+*· **	60	1680 × 1050
MAC13"	67	640 × 480
MAC16"	75	832 × 624
MAC19"	75	1024 × 768
MAC19"	59	1024 × 768
MAC21"	75	1152 × 870
Composite video		

Display format	Refresh rate (in Hz)	Resolution (in pixels)	
TV (NTSC)	60	720 × 480	
TV (PAL)	50/60	720 × 576	
TV (SECAM)	50	720 × 576	
Component video			
SDTV (480i)	60	720 × 480	
SDTV (576i)	50	720 × 576	
SDTV (480p)	60	720 × 480	
SDTV (576p)	50	720 × 576	
HDTV (720p)	50/60	1280 × 720	
HDTV (1080i)	50/60	1920 × 1080	
HDTV (1080p)	24/30/50/60	1920 × 1080	
HDMI input signals (PowerLite 1760W/1770W/1775W)			
VGA	60	640 × 480	
SVGA	60	800 × 600	
XGA	60	1024 × 768	
WXGA	60	1280 × 800	
SXGA	60	1280 × 960	
SXGA	60	1280 × 1024	
SXGA+	60	1400 × 1050	
UXGA	60	1600 × 1200	
SDTV (480i/480p)	60	720 × 480	
SDTV (576i/576p)	50	720 × 576	
HDTV (720p)	50/60	1280 × 720	
HDTV (1080i)	50/60	1920 × 1080	
HDTV (1080p)	24/30/50/60	1920 × 1080	

<sup>\*</sup> PowerLite 1760W/1770W/1775W only

\*\* Wide resolution only

Parent topic: Technical Specifications

## **Notices**

Check these sections for important notices about your projector.

Important Safety Information
Important Safety Instructions
FCC Compliance Statement
Trademarks
Software Copyright
Copyright Notice

## **Important Safety Information**

**Caution:** Never look into the projector lens when the lamp is turned on; the bright light can damage your eyes. Never let children look into the lens when it is on. Never open any cover on the projector, except the lamp and filter covers. Dangerous electrical voltages inside the projector can severely injure you. Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

**Warning:** The projector and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.

**Caution:** When you replace the lamp, never touch the new lamp with your bare hands; the invisible residue left by the oil on your hands may shorten the lamp life. Use a cloth or glove to handle the new lamp.

**Parent topic: Notices** 

## **Important Safety Instructions**

Follow these safety instructions when setting up and using the projector:

- Do not look into the lens when the projector is on. The bright light can damage your eyes.
- Do not place the projector on an unstable cart, stand, or table.
- Do not operate the projector on its side, or while tilted to one side. Do not tilt the projector more than 30° forward or back.

- If the projector is mounted on a ceiling, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- When installing or adjusting a ceiling mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants. This may cause the projector case to crack and the projector to fall from its ceiling mount. This could cause serious injury to anyone under the mount and could damage the projector.
- Do not use the projector near water or sources of heat.
- Use the type of power source indicated on the projector. Use of a different power source may result in fire or electric shock. If you are not sure of the power available, consult your dealer or power company.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- Take the following precautions when handling the plug: Do not hold the plug with wet hands. Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet. Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it. Failure to comply with these precautions could result in fire or electric shock.
- Do not overload wall outlets, extension cords, or power strips. Do not insert the plug into a dusty outlet. This can cause fire or electric shock.
- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- Unplug the projector from the wall outlet before cleaning. Use a dry cloth (or, for stubborn dirt or stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid or aerosol cleaners.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers, which could block vents underneath the projector. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the air exhaust vent.
- Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.
- Never push objects of any kind through the cabinet slots. Never spill liquid of any kind into the projector.
- If you are using two or more projectors side-by-side, leave at least 2 feet (60 cm) of space between the projectors to allow for proper ventilation.
- You may need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool the projector.
- Do not store the projector outdoors for an extended length of time.

- Except as specifically explained in this manual, do not attempt to service this product yourself. Refer all servicing to qualified personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Never open any covers on the projector except as specifically explained in this manual. Never attempt to disassemble or modify the projector. Refer all repairs to qualified service personnel.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the
  following conditions: If it does not operate normally when you follow the operating instructions, or
  exhibits a distinct change in performance; If smoke, strange odors, or strange noises come from the
  projector; If the power cord or plug is damaged or frayed; If liquid or foreign objects get inside the
  projector, or if it has been exposed to rain or water; If it has been dropped or the housing has been
  damaged.
- Do not touch the plug during an electrical storm. Otherwise, you may receive an electric shock.
- Unplug the projector when it will not be used for extended periods.
- Do not use the projector where it may be exposed to rain, water, or excessive humidity.
- Do not use the projector where it may be exposed to excessive dust or smoke.
- Do not use or store the projector or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector outside of the required temperature range of 41 to 95 °F (5 to 35 °C). Doing so may cause an unstable display and could lead to projector damage.
- Do not store the projector outside of the required temperature range of 14 to 140 °F (-10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.
- Do not place anything that can become warped or damaged by heat near the exhaust vents. Do not bring your hands or face close to the vents while projection is in progress.
- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.
- Never try to remove the lamp immediately after use because it will be extremely hot. Before removing the lamp, turn off the power and wait at least an hour to allow the lamp to cool completely.
- Do not place the source of an open flame, such as a lit candle, on or near the projector.
- Do not modify the power cord. Do not place heavy objects on top of the power cord or bend, twist, or pull it excessively. Keep the power cord away from hot electrical appliances.

- If the lamp breaks, ventilate the room to prevent gases contained in the lamp from being inhaled or coming in contact with your eyes or mouth.
- If the projector is mounted overhead and the lamp breaks, be careful to prevent pieces of glass from falling into your eyes when you open the lamp cover.

**Note:** He lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.

**WARNING**: The cords included with this product contain chemicals, including lead, known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling*. (This notice is provided in accordance with Proposition 65 in Cal. Health & Safety Code § 25249.5 and following.).

Parent topic: Notices

## **FCC Compliance Statement**

#### For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

#### For Canadian Users

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le materiel brouilleur du Canada.

**Parent topic: Notices** 

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The list of GPL Programs

busybox-1.13.4

iptables-1.4.2

libgcc1(gcc-4.3.3)

linux-2.6.27

patches

udhcp 0.9.8

uvc rev.219

wireless\_tools 29

### **EPSON** original drivers

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Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at http://www.ietf.org/rfc/1321.txt

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin. com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

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